

160523

## SEARCH REQUEST FORM

Requestor's Name: SATYA SASTRI Serial Number: 10/693,086  
Date: 7-26-05 Phone: (571) 272-1112 Art Unit: 1713  
10D24

## Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

PLEASE SEE ATTACHED.

## STAFF USE ONLY

Date completed: 8-3-05  
Searcher: EL  
Terminal time: 105  
Elapsed time: \_\_\_\_\_  
CPU time: \_\_\_\_\_  
Total time: 115  
Number of Searches: \_\_\_\_\_  
Number of Databases: \_\_\_\_\_

## Search Site

☒ STIC  
☐ CM-1  
☐ Pre-S

## Type of Search

☐ N.A. Sequence  
☐ A.A. Sequence  
☒ Structure (2)  
☒ Bibliographic (and!)

## Vendors

☐ IG  
☒ STN \$522.72  
☐ Dialog  
☐ APS  
☐ Geninfo  
☐ SDC  
☐ DARC/Questel  
☐ Other

IN THE CLAIMS:

Cancel Claims 3 and 6.

PLEASE AMEND THE FOLLOWING CLAIMS:

1 (Once Amended/Currently Amended) A cyanoacrylate adhesive composition for thermoplastic substrate surfaces comprising a styrenic copolymer resin, an alpha cyanoacrylate in an amount of from about 2 to 10 weight % of the weight of the styrenic copolymer resin, and a ~~high evaporation~~ evaporation rate solvent comprised of a high evaporation rate organic co-solvent mixture, said ~~solvent~~ co-solvent mixture being capable of solubilizing, but non-reactive to, the styrenic copolymer resin and the thermoplastic substrate surface.

2. (Once Amended/Currently Amended) The adhesive composition of Claim 1 wherein the high evaporation rate organic co-solvent is selected from the group consisting essentially of isoprene, hexane, heptane, styrene liquid, xylene, toluene, methylcyclohexane, cyclohexane, 2,2-dichloropropane, methylene chloride, diisobutyl ketone, diisopropylketone, methyl isobutyl ketone, methyl isopropyl ketone, methyl cyclohexanone, cyclohexanone, isobutyl acetate, isopropyl acetate, butyl acetate, propyl acetate, ethyl acetate, diethyl ether, dimethyl ether, diethylene glycol, 2-ethylhexanol and mixtures thereof ~~and mixtures thereof~~.

3. (CANCELLED)

4. (Once Amended/Currently Amended) The adhesive composition of ~~Claim 3~~ Claim 2 wherein the high evaporation rate solvent is selected from the group consisting essentially of t-butyl acetate, cyclohexanone, heptane, toluene, xylene and mixtures thereof.

5. (ORIGINAL) The adhesive composition of Claim 4 wherein the solvent has a Solubility Parameter of from 7.4 to 9.4.

6. (CANCELLED)

7. (Once Amended/Currently Amended) The adhesive composition of ~~Claim 6~~ Claim 1 wherein the ~~cyanoacrylate~~ cyanoacrylate is 1-alkyl cyanoacrylate and the alkyl group contains from 1 to 8 carbon atoms.

8. (ORIGINAL) The coating composition of Claim 1 wherein the styrenic copolymer resin is selected from the group consisting essentially of styrene butadiene rubber (SBR), styrene butadiene styrene (SBS), styrene-isoprene-styrene (S-I-S), natural butyl rubber (NBR), styrene-ethylene-propylene-styrene (SEPS), styrene-ethylene-styrene (SES), and styrene-ethylene-butylene-styrene (SEBS) copolymer.

Claims 9-20 (CANCELLED)

## ABSTRACT

The present invention provides a cyanoacrylate adhesive composition having high shear bond strength, peeling bond strength, tensile strength and impact bond strength and superior wear characteristics particularly in toy applications where hostile play environments demand hot-cold cycle resistance. The cyanoacrylate adhesive composition contains (a) up to 20% by weight of a cyanoacrylate monomer, (b) a styrene-based elastomeric block copolymer, and (c) a specific solvent which is selected to effect the solution of both components. The invention is also directed to a method of applying the instant adhesives to substrate surfaces.





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**\*BIBDATASHEET\***

CONFIRMATION NO. 8475

Bib Data Sheet

SERIAL NUMBER 10/693,086	FILING DATE 10/24/2003  RULE	CLASS 524	GROUP ART UNIT 1713	ATTORNEY DOCKET NO. MAT4690-1
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APPLICANTS

Abimael Cordova, Whittier, CA;

\*\* CONTINUING DATA \*\*\*\*\*

This application is a DIV of 10/034,416 12/28/2001 PAT 6,660,327 *verified on 4/24/05*

\*\* FOREIGN APPLICATIONS \*\*\*\*\*

IF REQUIRED, FOREIGN FILING LICENSE GRANTED

\*\* 01/24/2004

Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	STATE OR COUNTRY CA	SHEETS DRAWING 0	TOTAL CLAIMS 8	INDEPENDENT CLAIMS 1
35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance	EXAMINER'S SIGNATURE <i>Salvatore</i>	INITIALS <i>2/24/05</i>		

Verified and Acknowledged

ADDRESS

Robert W. Mulcahy  
 520 Sequoia Drive  
 Sunnyvale, CA  
 94086

TITLE

Cyanoadhesive composition for toy articles

FILING FEE  RECEIVED 770	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees ( Filing ) <input type="checkbox"/> 1.17 Fees ( Processing Ext. of time ) <input type="checkbox"/> 1.18 Fees ( Issue ) <input type="checkbox"/> Other _____
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Mellerson, Kendra

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From: Unknown@Unknown.com  
Sent: Tuesday, July 26, 2005 11:32 AM  
To: STIC-EIC1700  
Subject: Generic form response

SCIENTIFIC REFERENCE BR  
Sci & Tech Inf. Ctr

JUL 26 RECD

Pat. & T.M. Office

ResponseHeader=Commercial Database Search Request

AccessDB#= 160523

LogNumber= \_\_\_\_\_

Searcher= \_\_\_\_\_

SearcherPhone= \_\_\_\_\_

SearcherBranch= \_\_\_\_\_

MyDate=Tue Jul 26 11:30:39 EDT 2005

submitto=STIC-EIC1700@uspto.gov

Name=Satya Sastri

Empno=79815

Phone=2-1112

Artunit=1713

Office=REM 10D24

Serialnum=10/693,086

PatClass=

Earliest=12/28/01

Format1=paper

Searchtopic=Please search for a cyanoacrylate adhesive composition comprising (a) styrenic resin or copolymer, (b) 2-10 wt.% of alpha cyanoacrylate, based on the wt. of styrenic resin, and (c) solvent.

Comments=

send=SEND

=> file reg

FILE 'REGISTRY' ENTERED AT 11:03:04 ON 03 AUG 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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=> d his

FILE 'HCAPLUS' ENTERED AT 10:04:59 ON 03 AUG 2005

L1 121 S CORDOVA A?/AU  
L2 4178 S ?CYANOACRYLAT?  
L3 1 S L1 AND L2  
SEL RN

FILE 'REGISTRY' ENTERED AT 10:08:08 ON 03 AUG 2005

L4 34 S E1-E34  
L5 8 S L4 AND PMS/CI  
SEL L5 1,2,3,5,6 RN  
L6 5 S E35-E39  
SEL L5 7,8 RN  
L7 2 S E40-E41  
L8 26 S L4 NOT L5  
SEL L8 1-22,25,26 RN  
L9 24 S E42-E65

FILE 'HCA' ENTERED AT 10:23:11 ON 03 AUG 2005

L10 18139 S L6  
L11 541 S L7  
L12 253989 S L9  
L13 1 S L10 AND L11  
L14 1 S L13 AND L9  
L15 4177 S ?CYANOACRYLAT? OR ?CYANO(A)ACRYLAT?  
L16 5 S L10 AND L15  
L17 1 S L16 AND L12

FILE 'REGISTRY' ENTERED AT 10:27:49 ON 03 AUG 2005

E ACRYLIC ACID, 2-CYANO-, N-PROPYL ESTER, POLYMERS/CN  
E ACRYLIC ACID, 2-CYANO-, PROPYL ESTER, POLYMERS/CN  
L18 1 S E3  
E ACRYLIC ACID, 2-CYANO-, ISOPROPYL ESTER, POLYMERS/CN  
L19 1 S E3  
E ACRYLIC ACID, 2-CYANO-, BUTYL ESTER, POLYMERS/CN  
L20 1 S E3  
E ACRYLIC ACID, 2-CYANO-, ISOBUTYL ESTER, POLYMERS/CN  
L21 1 S E3

E ACRYLIC ACID, 2-CYANO-, SEC-BUTYL ESTER, POLYMERS/CN  
E ACRYLIC ACID, 2-CYANO-, S-BUTYL ESTER, POLYMERS/CN  
E ACRYLIC ACID, 2-CYANO-, TERT-BUTYL ESTER, POLYMERS/CN  
E ACRYLIC ACID, 2-CYANO-, T-BUTYL ESTER, POLYMERS/CN  
E ACRYLIC ACID, 2-CYANO-, A, POLYMERS/CN  
L22 18 S E11 OR E12 OR E13 OR E14 OR E15 OR E16 OR E23 OR E24 OR

FILE 'HCA' ENTERED AT 10:37:07 ON 03 AUG 2005  
L23 229 S L22

FILE 'REGISTRY' ENTERED AT 10:37:21 ON 03 AUG 2005  
E STYRENE/CN  
L24 1 S E3  
L25 70650 S 100-42-5/CRN  
L26 70448 S L25 AND PMS/CI

FILE 'HCA' ENTERED AT 10:37:56 ON 03 AUG 2005  
L27 272914 S L26  
L28 243 S (L27 OR L10 OR ?STYREN? OR ?STYRYL?) AND (L23 OR L11 OR  
L29 14 S L28 AND L12  
E ADHESIVES/CV  
L30 93596 S E3

FILE 'LCA' ENTERED AT 10:41:53 ON 03 AUG 2005  
L31 5976 S (ADHESI? OR ADHERE? OR STICK? OR CLING? OR BOND? OR CEM  
L32 1834 S ADHESI? OR ADHERE? OR STICK? OR CLING? OR BONDER? OR CO

FILE 'HCA' ENTERED AT 10:43:58 ON 03 AUG 2005  
L33 76 S L28 AND L30  
L34 111 S L28 AND L32  
L35 104901 S THERMOPLAST?  
L36 960334 S (MIXT# OR MIXTURE? OR BLEND? OR ADMIX? OR COMMIX? OR IM  
L37 12 S L28 AND L35  
L38 45 S L28 AND L36  
L39 19 S L38 AND L30  
L40 27 S L38 AND L32  
L41 5 S L14 OR L16 OR L17  
L42 38 S (L29 OR L37 OR L39) NOT L41  
L43 7 S L40 NOT (L41 OR L42)  
L44 32 S L42 AND (1840-2001/PY OR 1840-2001/PRY)

=> file hca

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=> d 141 1-5 cbib abs hitstr hitind

L41 ANSWER 1 OF 5 HCA COPYRIGHT 2005 ACS on STN

141:366642 Method of chemically modifying chemical compounds using plasma treatment. Karthauser, Joachim (NKT Research & Innovation A/S, Den.). PCT Int. Appl. WO 2004089855 A2 20041021, 58 pp.

DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR.

(English). CODEN: PIXXD2. APPLICATION: WO 2004-DK238 20040402.

PRIORITY: DK 2003-524 20030407.

AB Title method comprises the step of subjecting the one or more chem. compds. in liq. state to a plasma treatment. The invention in particular concerns chem. modification of org. compds. selected from the group consisting of hydrocarbons, such as paraffins, olefins, polyolefin's, polyalphaolefins, esters, polyesters, oxygenates, carbonyls and arom. compds.; and organosilicones, such as silicone and silicone derivs., fluorosilicones, silicon esters, siloxanes, silanes, chlorosilanes, alkoxysilanes, aminosilanes, polysilanes, polydialkylsiloxanes, siloxanes contg. Ph substituents, hydrosilylated olefins, silanols, silazanes; and mixts. thereof. The chem. modification may e.g. be a di- or oligomerisation or preferably addn. of a desired chem. group. The invention also includes the produced compds. The method is relatively fast and cheap and furthermore new chem. compds. can be produced.

IT **106107-54-4P**, Butadiene-styrene block copolymer

(method of chem. modifying chem. compds. using plasma treatment)

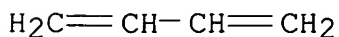
RN 106107-54-4 HCA

CN Benzene, ethenyl-, polymer with 1,3-butadiene, block (9CI) (CA INDEX NAME)

CM 1

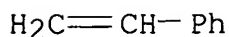
CRN 106-99-0

CMF C4 H6



CM 2

CRN 100-42-5  
CMF C8 H8



IC ICM C07B061-00  
CC 35-8 (Chemistry of Synthetic High Polymers)  
IT 88-12-0DP, 1-Vinyl-2-pyrrolidone, polymers with silicone  
100-42-5DP, Styrene, polymers with silicone 7085-85-0DP, Ethyl 2-  
**cyanoacrylate**, polymers with silicone **106107-54-4P**  
, Butadiene-styrene block copolymer 538370-74-0P  
(method of chem. modifying chem. compds. using plasma treatment)

L41 ANSWER 2 OF 5 HCA COPYRIGHT 2005 ACS on STN  
141:24966 Thermoplastic elastomer compositions with good adhesion.  
Takayama, Haruyuki; Ishiguro, Michihiro (Kuraray Plastics Co., Ltd.,  
Japan). Jpn. Kokai Tokkyo Koho JP 2004161917 A2 20040610, 10 pp.  
(Japanese). CODEN: JKXXAF. APPLICATION: JP 2002-330398 20021114.

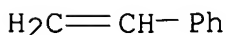
AB Title compns. with type-A durometer hardness (JIS K 6253) .ltoreq.90  
comprise (A) 100 parts thermoplastic elastomers of hydrogenated  
block copolymers consisting of vinyl arom. compd. blocks and  
conjugated diene blocks or 100 parts olefin-based thermoplastic  
elastomers and (B) 2-100 parts block copolymers consisting of  
polyolefin blocks and hydrophilic polymer blocks. Thus, SEPS  
(styrene-ethylene-propylene-styrene triblock copolymer) rubber, a  
mineral oil softening agent, Novatec EA 9 (polyolefin), and Pelestat  
300 (maleated propylene-based polyolefin-polyethylene-based alkylene  
glycol block copolymer) were melt kneaded, pressed, and bonded with  
an Al sash, an ABS resin sheet, or a lauan material using a  
**cyanoacrylate** adhesive to give test pieces showing high  
180.degree.-peel strength, resp.

IT **105729-79-1 700836-36-8**  
(isoprene-styrene rubber, hydrogenated, block, triblock;  
thermoplastic elastomer compns. with good adhesion to metals,  
rigid polymers, and wood materials)

RN 105729-79-1 HCA  
CN Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, block (9CI)  
(CA INDEX NAME)

CM 1

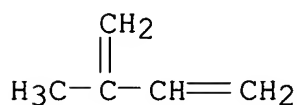
CRN 100-42-5  
CMF C8 H8



CM 2

CRN 78-79-5

CMF C5 H8



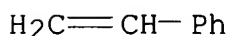
RN 700836-36-8 HCA

CN Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, triblock  
(9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5

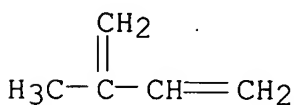
CMF C8 H8



CM 2

CRN 78-79-5

CMF C5 H8



IC ICM C08L053-02

ICS C08F293-00; C08G081-02; C08L101-00; C08L053-00

CC 39-9 (Synthetic Elastomers and Natural Rubber)

IT **105729-79-1 700836-36-8**

(isoprene-styrene rubber, hydrogenated, block, triblock;  
thermoplastic elastomer compns. with good adhesion to metals,  
rigid polymers, and wood materials)

L41 ANSWER 3 OF 5 HCA COPYRIGHT 2005 ACS on STN

139:86326 **Cyanoacrylate** adhesive compositions for toy  
articles. Cordova, Abimael (Mattel, Inc., USA). U.S. Pat. Appl.  
Publ. US 2003125443 A1 20030703, 7 pp. (English). CODEN: USXXCO.  
APPLICATION: US 2001-34416 20011228.

AB The adhesive compns. have high shear bond strength, peeling bond strength, tensile strength, impact bond strength, and superior wear characteristics particularly in toy applications where hostile play environments demand hot-cold cycle resistance. The adhesive compns. contain (a) .ltoreq.20% of an .alpha.-**cyanoacrylate** monomer, (b) a styrene-based elastomeric block copolymer (e.g., SEBS), and (c) a specific solvent (e.g., tert-Bu acetate, heptane, cyclohexanone) which is selected to effect the soln. of both components. A method of applying the instant adhesives to substrate surfaces is provided.

IT **540-88-5**, tert-Butyl acetate **25067-29-2**, Methyl **cyanoacrylate** homopolymer **25067-30-5**, Ethyl **cyanoacrylate** homopolymer  
(**cyanoacrylate** adhesive compns. contg. styrene-based block elastomers for toys)

RN 540-88-5 HCA

CN Acetic acid, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

t-Bu-O-Ac

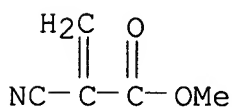
RN 25067-29-2 HCA

CN 2-Propenoic acid, 2-cyano-, methyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 137-05-3

CMF C5 H5 N O2



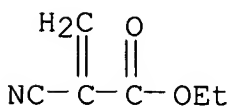
RN 25067-30-5 HCA

CN 2-Propenoic acid, 2-cyano-, ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7085-85-0

CMF C6 H7 N O2





IT 105729-79-1

(isoprene-styrene rubber, block; **cyanoacrylate** adhesive  
compns. contg. styrene-based block elastomers for toys)

RN 105729-79-1 HCA

CN Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, block (9CI)  
(CA INDEX NAME)

CM 1

CRN 100-42-5

CMF C8 H8

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

CM 2

CRN 78-79-5

CMF C5 H8

$\begin{array}{c} \text{CH}_2 \\ || \\ \text{H}_3\text{C}-\text{C}-\text{CH}=\text{CH}_2 \end{array}$

IT 700836-36-8

(isoprene-styrene rubber, hydrogenated, block, triblock;  
**cyanoacrylate** adhesive compns. contg. styrene-based block  
elastomers for toys)

RN 700836-36-8 HCA

CN Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, triblock  
(9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5

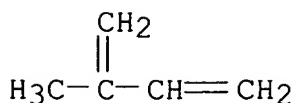
CMF C8 H8

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

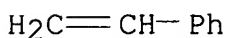
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CRN 78-79-5

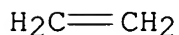
CMF C5 H8



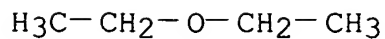
IT **110351-66-1**, Ethylene-styrene block copolymer  
 (rubber; **cyanoacrylate** adhesive compns. contg.  
 styrene-based block elastomers for toys)  
 RN 110351-66-1 HCA  
 CN Benzene, ethenyl-, polymer with ethene, block (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 100-42-5  
 CMF C8 H8



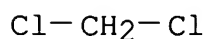
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 CRN 74-85-1  
 CMF C2 H4



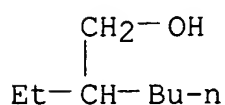
IT **60-29-7**, Diethyl ether, uses **75-09-2**, Methylene  
 chloride, uses **104-76-7**, 2-Ethylhexanol **108-10-1**  
 , Methyl isobutyl ketone **108-21-4**, Isopropyl acetate  
**108-83-8**, Diisobutyl ketone **108-87-2**,  
 Methylcyclohexane **108-88-3**, Toluene, uses **108-94-1**  
 , Cyclohexanone, uses **109-60-4**, Propyl acetate  
**110-19-0**, Isobutyl acetate **110-54-3**, Hexane, uses  
**110-82-7**, Cyclohexane, uses **111-46-6**, Diethylene  
 glycol, uses **115-10-6**, Dimethyl ether **123-86-4**,  
 Butyl acetate **141-78-6**, Ethyl acetate, uses  
**142-82-5**, Heptane, uses **563-80-4**, Methyl isopropyl  
 ketone **565-80-0**, Diisopropylketone **594-20-7**,  
 2,2-Dichloropropane **1330-20-7**, Xylene, uses  
**1331-22-2**, Methyl cyclohexanone  
 (solvent; **cyanoacrylate** adhesive compns. contg.  
 styrene-based block elastomers for toys)  
 RN 60-29-7 HCA  
 CN Ethane, 1,1'-oxybis- (9CI) (CA INDEX NAME)



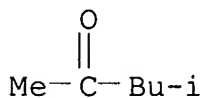
RN 75-09-2 HCA  
CN Methane, dichloro- (8CI, 9CI) (CA INDEX NAME)



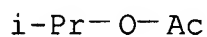
RN 104-76-7 HCA  
CN 1-Hexanol, 2-ethyl- (8CI, 9CI) (CA INDEX NAME)



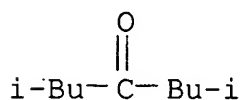
RN 108-10-1 HCA  
CN 2-Pentanone, 4-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



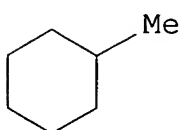
RN 108-21-4 HCA  
CN Acetic acid, 1-methylethyl ester (9CI) (CA INDEX NAME)



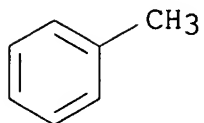
RN 108-83-8 HCA  
CN 4-Heptanone, 2,6-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



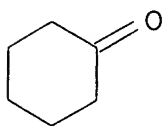
RN 108-87-2 HCA  
CN Cyclohexane, methyl- (8CI, 9CI) (CA INDEX NAME)



RN 108-88-3 HCA  
CN Benzene, methyl- (9CI) (CA INDEX NAME)



RN 108-94-1 HCA  
CN Cyclohexanone (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 109-60-4 HCA  
CN Acetic acid, propyl ester (6CI, 8CI, 9CI) (CA INDEX NAME)

n-Pr-O-Ac

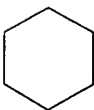
RN 110-19-0 HCA  
CN Acetic acid, 2-methylpropyl ester (9CI) (CA INDEX NAME)

i-Bu-O-Ac

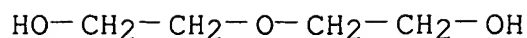
RN 110-54-3 HCA  
CN Hexane (8CI, 9CI) (CA INDEX NAME)

Me-(CH<sub>2</sub>)<sub>4</sub>-Me

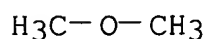
RN 110-82-7 HCA  
CN Cyclohexane (8CI, 9CI) (CA INDEX NAME)



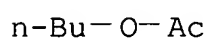
RN 111-46-6 HCA  
CN Ethanol, 2,2'-oxybis- (9CI) (CA INDEX NAME)



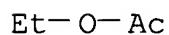
RN 115-10-6 HCA  
CN Methane, oxybis- (9CI) (CA INDEX NAME)



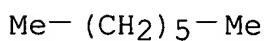
RN 123-86-4 HCA  
CN Acetic acid, butyl ester (8CI, 9CI) (CA INDEX NAME)



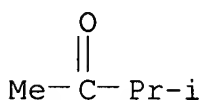
RN 141-78-6 HCA  
CN Acetic acid ethyl ester (8CI, 9CI) (CA INDEX NAME)



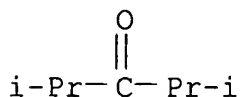
RN 142-82-5 HCA  
CN Heptane (8CI, 9CI) (CA INDEX NAME)



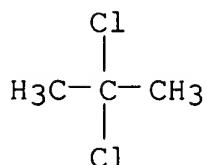
RN 563-80-4 HCA  
CN 2-Butanone, 3-methyl- (8CI, 9CI) (CA INDEX NAME)



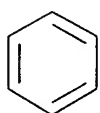
RN 565-80-0 HCA  
CN 3-Pentanone, 2,4-dimethyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 594-20-7 HCA  
CN Propane, 2,2-dichloro- (8CI, 9CI) (CA INDEX NAME)

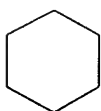


RN 1330-20-7 HCA  
 CN Benzene, dimethyl- (9CI) (CA INDEX NAME)



2 ( D1-Me )

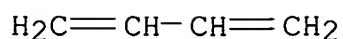
RN 1331-22-2 HCA  
 CN Cyclohexanone, methyl- (8CI, 9CI) (CA INDEX NAME)



D2=O

D1-Me

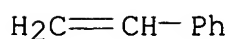
IT **106107-54-4**  
 (styrene-butadiene rubber, block; **cyanoacrylate**  
 adhesive compns. contg. styrene-based block elastomers for toys)  
 RN 106107-54-4 HCA  
 CN Benzene, ethenyl-, polymer with 1,3-butadiene, block (9CI) (CA  
 INDEX NAME)  
 CM 1  
 CRN 106-99-0  
 CMF C4 H6



CM 2

CRN 100-42-5

CMF C8 H8



(styrene-butadiene rubber, **cyanoacrylate** adhesive  
compns. contg. styrene-based block elastomers for toys

IT **694491-73-1**

(styrene-butadiene rubber, hydrogenated, block, triblock, kraton  
1650; **cyanoacrylate** adhesive compns. contg.  
styrene-based block elastomers for toys)

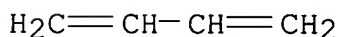
RN 694491-73-1 HCA

CN Benzene, ethenyl-, polymer with 1,3-butadiene, triblock (9CI) (CA  
INDEX NAME)

CM 1

CRN 106-99-0

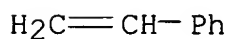
CMF C4 H6



CM 2

CRN 100-42-5

CMF C8 H8



IC ICM B05D003-02

ICS C08K005-01

INCL 524476000; 427385500

CC 38-3 (Plastics Fabrication and Uses)  
Section cross-reference(s): 39ST **cyanoacrylate** SEBS rubber adhesive toy; styrene block  
elastomer **cyanoacrylate** adhesive; hot cold cycle  
resistance **cyanoacrylate** adhesive toy; butyl acetate

- heptane cyclohexanone **cyanoacrylate** adhesive solvent
- IT Isoprene-styrene rubber  
Styrene-butadiene rubber, uses  
    (block; **cyanoacrylate** adhesive compns. contg.  
    styrene-based block elastomers for toys)
- IT Adhesives  
Toys  
    (**cyanoacrylate** adhesive compns. contg. styrene-based  
    block elastomers for toys)
- IT Nitrile rubber, uses  
Styrene-butadiene rubber, uses  
    (**cyanoacrylate** adhesive compns. contg. styrene-based  
    block elastomers for toys)
- IT Toys  
    (dolls; **cyanoacrylate** adhesive compns. contg.  
    styrene-based block elastomers for toys)
- IT Synthetic rubber, uses  
    (ethylene-styrene, block; **cyanoacrylate** adhesive  
    compns. contg. styrene-based block elastomers for toys)
- IT Styrene-butadiene rubber, uses  
    (hydrogenated, block, triblock, kraton 1650;  
    **cyanoacrylate** adhesive compns. contg. styrene-based block  
    elastomers for toys)
- IT Isoprene-styrene rubber  
    (hydrogenated, block, triblock; **cyanoacrylate** adhesive  
    compns. contg. styrene-based block elastomers for toys)
- IT 540-88-5, tert-Butyl acetate 25067-29-2, Methyl  
**cyanoacrylate** homopolymer 25067-30-5, Ethyl  
**cyanoacrylate** homopolymer  
    (**cyanoacrylate** adhesive compns. contg. styrene-based  
    block elastomers for toys)
- IT 105729-79-1  
    (isoprene-styrene rubber, block; **cyanoacrylate** adhesive  
    compns. contg. styrene-based block elastomers for toys)
- IT 700836-36-8  
    (isoprene-styrene rubber, hydrogenated, block, triblock;  
    **cyanoacrylate** adhesive compns. contg. styrene-based block  
    elastomers for toys)
- IT 106974-61-2  
    (nitrile rubber, **cyanoacrylate** adhesive compns. contg.  
    styrene-based block elastomers for toys)
- IT 110351-66-1, Ethylene-styrene block copolymer  
    (rubber; **cyanoacrylate** adhesive compns. contg.  
    styrene-based block elastomers for toys)
- IT 60-29-7, Diethyl ether, uses 75-09-2, Methylene  
chloride, uses 78-79-5, Isoprene, uses 100-42-5, Styrene, uses  
104-76-7, 2-Ethylhexanol 108-10-1, Methyl isobutyl  
ketone 108-21-4, Isopropyl acetate 108-83-8,



Diisobutyl ketone 108-87-2, Methylcyclohexane 108-88-3, Toluene, uses 108-94-1, Cyclohexanone, uses 109-60-4, Propyl acetate 110-19-0, Isobutyl acetate 110-54-3, Hexane, uses 110-82-7, Cyclohexane, uses 111-46-6, Diethylene glycol, uses 115-10-6, Dimethyl ether 123-86-4, Butyl acetate 141-78-6, Ethyl acetate, uses 142-82-5, Heptane, uses 563-80-4, Methyl isopropyl ketone 565-80-0, Diisopropylketone 594-20-7, 2,2-Dichloropropane 1330-20-7, Xylene, uses 1331-22-2, Methyl cyclohexanone

(solvent; **cyanoacrylate** adhesive compns. contg. styrene-based block elastomers for toys)

IT 106107-54-4

(styrene-butadiene rubber, block; **cyanoacrylate** adhesive compns. contg. styrene-based block elastomers for toys)

IT 106107-54-4

(styrene-butadiene rubber, **cyanoacrylate** adhesive compns. contg. styrene-based block elastomers for toys)

IT 694491-73-1

(styrene-butadiene rubber, hydrogenated, block, triblock, kraton 1650; **cyanoacrylate** adhesive compns. contg. styrene-based block elastomers for toys)

L41 ANSWER 4 OF 5 HCA COPYRIGHT 2005 ACS on STN

132:280194 Bonded structures and bonding of molded building materials with **cyanoacrylate** adhesives. Hayashi, Hitoshi (Sekisui Chemical Co. Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2000110313 A2 20000418, 9 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1998-286665 19981008.

AB Molded building materials (e.g. troughs) covered with modified polyolefins are bonded to other moldings with **cyanoacrylate** adhesives. Thus, a polypropylene (Polypro EA 9) substrate contg. glass fibers laminated with a surface layer of an acrylic resin (Acrypet VH) contg. 30 vol.% maleated polyolefin (Admer QB 550) was bonded to an AES resin (Unibrite UB 400) with a primer (Loctite 770) and a **cyanoacrylate** adhesive (Loctite 449) to give a bonded structure with good adhesion.

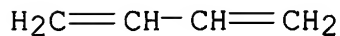
IT 106107-54-4 694491-73-1

(styrene-butadiene rubber, hydrogenated, block, triblock; **cyanoacrylate** adhesives for bonding of molded building materials having modified polyolefin surfaces)

RN 106107-54-4 HCA

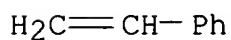
CN Benzene, ethenyl-, polymer with 1,3-butadiene, block (9CI) (CA INDEX NAME)

CRN 106-99-0  
CMF C4 H6



CM 2

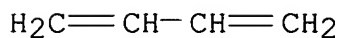
CRN 100-42-5  
CMF C8 H8



RN 694491-73-1 HCA  
CN Benzene, ethenyl-, polymer with 1,3-butadiene, triblock (9CI) (CA INDEX NAME)

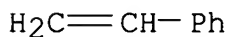
CM 1

CRN 106-99-0  
CMF C4 H6



CM 2

CRN 100-42-5  
CMF C8 H8



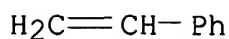
IT **105729-79-1**, Isoprene-styrene block copolymer  
**700836-36-8**

(triblock; **cyanoacrylate** adhesives for bonding of  
molded building materials having modified polyolefin surfaces)

RN 105729-79-1 HCA  
CN Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, block (9CI)  
(CA INDEX NAME)

CM 1

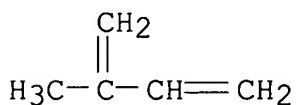
CRN 100-42-5  
CMF C8 H8



CM 2

CRN 78-79-5

CMF C5 H8



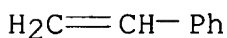
RN 700836-36-8 HCA

CN Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, triblock  
(9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5

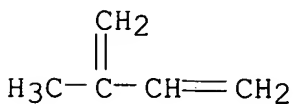
CMF C8 H8



CM 2

CRN 78-79-5

CMF C5 H8



IC ICM E04D013-068

ICS B29C065-48; B32B027-32; C08J005-12; E04B001-38; B29K023-00;  
B29L031-10

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 58

ST **cyanoacrylate** adhesive modified polyolefin building;  
polypropylene acrylic maleated polyolefin **cyanoacrylate**  
adhesive

IT Adhesives

Construction materials

- (**cyanoacrylate** adhesives for bonding of molded building materials having modified polyolefin surfaces)
- IT Acrylic polymers, uses  
Laminated plastics, uses  
Molded plastics, uses  
Polyamides, uses  
Polyesters, uses  
(**cyanoacrylate** adhesives for bonding of molded building materials having modified polyolefin surfaces)
- IT Styrene-butadiene rubber, uses  
(hydrogenated, block, triblock; **cyanoacrylate** adhesives for bonding of molded building materials having modified polyolefin surfaces)
- IT Polyolefins  
(modified; **cyanoacrylate** adhesives for bonding of molded building materials having modified polyolefin surfaces)
- IT 263719-03-5, Loctite 449  
(adhesive; **cyanoacrylate** adhesives for bonding of molded building materials having modified polyolefin surfaces)
- IT 108-31-6D, Maleic anhydride, reaction products with polyolefins  
9003-07-0D, Polypropylene, maleated 9011-14-7, Acrypet VH  
24937-78-8, EVA 25067-34-9, Ethylene-vinyl alcohol copolymer  
106565-43-9, Polypro EA 9 131016-75-6, Unibrite UB 400  
220181-18-0, Admer QB 550  
(**cyanoacrylate** adhesives for bonding of molded building materials having modified polyolefin surfaces)
- IT 15802-18-3D, .alpha.-Cyanoacrylic acid, esters, polymers  
(**cyanoacrylate** adhesives for bonding of molded building materials having modified polyolefin surfaces)
- IT 140415-34-5, Loctite 770  
(primer; **cyanoacrylate** adhesives for bonding of molded building materials having modified polyolefin surfaces)
- IT **106107-54-4 694491-73-1**  
(styrene-butadiene rubber, hydrogenated, block, triblock; **cyanoacrylate** adhesives for bonding of molded building materials having modified polyolefin surfaces)
- IT **105729-79-1**, Isoprene-styrene block copolymer  
**700836-36-8**  
(triblock; **cyanoacrylate** adhesives for bonding of molded building materials having modified polyolefin surfaces)
- L41 ANSWER 5 OF 5 HCA COPYRIGHT 2005 ACS on STN  
109:172277 **Cyanoacrylates** and rubber activators for sealing punctures and ruptures. Hogen-Esch, Thieo Eltjo (Renbec International Corp., USA). Eur. Pat. Appl. EP 273737 A2 19880706, 9 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1987-311446 19871224. PRIORITY: US 1987-195 19870102.

AB A puncture or rupture in a substrate is sealed by applying an .alpha.-**cyanoacrylate** ester in and around the opening and applying a layer of a powd. rubber (freshly vulcanized or reclaimed) as an activator. A slit in a neoprene rubber fuel hose and the surrounding area were coated with an alkyl .alpha.-**cyanoacrylate**, and the coating was covered with powd. Hycar 1422. After 10 min, the sealed slit did not leak at a pressure of 50 psi.

IT **106107-54-4**

(rubber, block, **cyanoacrylate** sealants activated by, for punctures and ruptures)

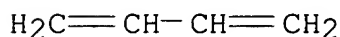
RN 106107-54-4 HCA

CN Benzene, ethenyl-, polymer with 1,3-butadiene, block (9CI) (CA INDEX NAME)

CM 1

CRN 106-99-0

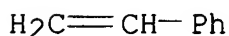
CMF C4 H6



CM 2

CRN 100-42-5

CMF C8 H8



IC ICM C09K003-12

ICS C09J003-00

CC 42-11 (Coatings, Inks, and Related Products)

Section cross-reference(s): 39

ST **cyanoacrylate** sealant puncture rupture; rubber activator

**cyanoacrylate** sealant; nitrile rubber activator

**cyanoacrylate**; hose rupture sealant **cyanoacrylate**;

neoprene hose rupture sealant

IT Monosaccharides

Polysaccharides, uses and miscellaneous

(activators, for **cyanoacrylate** sealants, for punctures and ruptures)

IT Rubber, natural, uses and miscellaneous

Rubber, neoprene, uses and miscellaneous

Rubber, nitrile, uses and miscellaneous

(**cyanoacrylate** sealants activated by, for punctures and

- ruptures)
- IT Crosslinking catalysts  
(**cyanoacrylate** sealants contg., for punctures and ruptures)
- IT Sealing compositions  
(**cyanoacrylates**, for ruptures and punctures, activators for)
- IT Polymerization catalysts  
(for **cyanoacrylate** sealants, for punctures and ruptures)
- IT Rubber, synthetic  
(acrylic acid-acrylonitrile-butadiene, **cyanoacrylate** sealants activated by, for punctures and ruptures)
- IT Rubber, butadiene-styrene, uses and miscellaneous  
(block, **cyanoacrylate** sealants activated by, for punctures and ruptures)
- IT Rubber, butadiene, uses and miscellaneous  
(of 1,2-configuration, **cyanoacrylate** sealants activated by, for punctures and ruptures)
- IT Rubber, butadiene, uses and miscellaneous  
Rubber, isoprene, uses and miscellaneous  
(of cis-1,4-configuration, **cyanoacrylate** sealants activated by, for punctures and ruptures)
- IT 144-55-8, Sodium bicarbonate, uses and miscellaneous 9000-01-5, Gum arabic 9000-07-1, Carrageenan 9000-30-0, Guar gum 9000-40-2, Locust bean gum 9000-69-5, Pectin 9002-89-5, Poly(vinyl alcohol) 9003-03-6, Poly(acrylic acid) ammonium salt 9003-04-7, Poly(acrylic acid) sodium salt 9003-63-8, Poly(butyl methacrylate) 9004-34-6, Cellulose, uses and miscellaneous 9005-25-8, Starch, uses and miscellaneous 9005-32-7D, esters 25213-24-5, Vinyl acetate-vinyl alcohol copolymer 25265-19-4, Acrylic acid-acrylonitrile-butadiene copolymer 28805-15-4, Poly(methacrylic acid) ammonium salt 54193-36-1, Poly(methacrylic acid) sodium salt  
(**cyanoacrylate** sealant activated by, for punctures and ruptures)
- IT **106107-54-4**  
(rubber, block, **cyanoacrylate** sealants activated by, for punctures and ruptures)
- IT 9003-18-3 9010-98-4  
(rubber, **cyanoacrylate** sealants activated by, for punctures and ruptures)
- IT 9003-17-2  
(rubber, of 1,2-configuration, **cyanoacrylate** sealants activated by, for punctures and ruptures)
- IT 9003-17-2 9003-31-0  
(rubber, of cis-1,4-configuration, **cyanoacrylate** sealants activated by, for punctures and ruptures)

IT 137-05-3, Methyl .alpha.-**cyanoacrylate** 3578-06-1, Hexyl  
.alpha.-**cyanoacrylate** 6606-65-1, Butyl .alpha.-  
**cyanoacrylate** 7085-85-0, Ethyl .alpha.-  
**cyanoacrylate** 10151-78-7 15666-89-4  
(sealing compns., for punctures and ruptures, activators for)

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L44 ANSWER 1 OF 32 HCA COPYRIGHT 2005 ACS on STN

136:205474 Coating compositions for delivering a medicament from the surface of a medical device. Chudzik, Stephen J.; Everson, Terrence P.; Amos, Richard A. (Surmodics, Inc., USA). PCT Int. Appl. WO 2002013871 A2 20020221, 46 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-US41309 20010709. PRIORITY: US 2000-2000/PV225465 20000815.

AB A coating compn., in both its uncrosslinked and crosslinked forms, for use in delivering a medicament from the surface of a medical device positioned in vivo is disclosed. Once crosslinked, the coating compn. provides a gel matrix adapted to contain the medicament in a form that permits the medicament to be released from the matrix in a prolonged, controlled, predictable and effective manner in vivo. A compn. includes a polyether monomer, such as an alkoxy poly(alkylene glycol), a carboxylic acid-contg. monomer, such as (meth)acrylic acid, a photoderivatized monomer, and a hydrophilic monomer such as acrylamide. Acrylamide-methacrylic acid-methoxy polyethylene glycol monomethacrylate-N-[3-(4-benzoylbenzamido)propyl]methacrylamide copolymer was prepd. (I). Stainless steel rods (2 cm) were dipped in a soln. of 50 mg/mL I in isopropanol, air dried, subjected to UV light. The coated rods were incubated in a soln. of 100 mg/mL chlorhexidine diacetate for 30 min. at room temp. Release of chlorhexidine from rods was measured by placing the rod on agar surface that was incubated with Staphylococcus epidermidis.

IT **9003-54-7**, Acrylonitrile-**Styrene** copolymer  
**9003-56-9**, Acrylonitrile butadiene **styrene** copolymer

(coating compns. for delivering medicament from surface of medical device)

RN 9003-54-7 HCA

CN 2-Propenenitrile, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

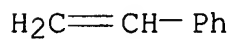
CMF C3 H3 N



CM 2

CRN 100-42-5

CMF C8 H8



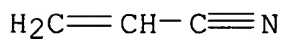
RN 9003-56-9 HCA

CN 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene  
(9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

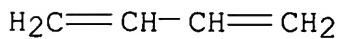
CMF C3 H3 N



CM 2

CRN 106-99-0

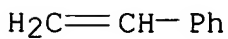
CMF C4 H6



CM 3

CRN 100-42-5

CMF C8 H8





- IC ICM A61K047-30  
 CC 63-7 (Pharmaceuticals)  
 Section cross-reference(s): 35, 38  
 IT Acrylic polymers, biological studies  
 Collagens, biological studies  
 Elastins  
 Fibrins  
 Fluoropolymers, biological studies  
 Laminins  
 Polyamide fibers, biological studies  
 Polyamides, biological studies  
 Polycarbonates, biological studies  
 Polyesters, biological studies  
 Polyethers, biological studies  
 Polyimides, biological studies  
 Polyolefins  
 Polysiloxanes, biological studies  
 Polysulfones, biological studies  
 Polyurethanes, biological studies  
 Rubber, biological studies  
 Silicone rubber, biological studies  
**Thermoplastic** rubber  
 (coating compns. for delivering medicament from surface of medical device)  
 IT 1306-06-5, Hydroxyapatite 1344-28-1, Aluminum oxide, biological studies 1398-61-4, Chitin 7440-06-4, Platinum, biological studies 7440-22-4, Silver, biological studies 7440-32-6, Titanium, biological studies 9002-84-0, Polytetrafluoroethylene 9002-86-2, Polyvinyl chloride 9002-89-5, Polyvinyl alcohol 9003-01-4, Polyacrylic acid 9003-31-0, Polyisoprene 9003-39-8, Polyvinyl pyrrolidone **9003-54-7**, Acrylonitrile-**Styrene** copolymer **9003-56-9**, Acrylonitrile butadiene **styrene** copolymer 9004-34-6, Cellulose, biological studies 12035-60-8 12597-68-1, Stainless steel, biological studies 24937-78-8, Ethylene vinyl acetate copolymer 24937-79-9, Polyvinylidene fluoride 24980-41-4, Polycaprolactone 25038-71-5, Ethylene tetrafluoroethylene copolymer 25154-80-7, Poly(**butylcyanoacrylate**) 25248-42-4, Polycaprolactone 26009-03-0, Polyglycolic acid 26023-30-3, Poly[oxy(1-methyl-2-oxo-1,2-ethanediyl)] 26100-51-6, Polylactic acid 26124-68-5, Polyglycolic acid 26835-20-1, Acrylonitrile butadiene ethylene copolymer 112143-11-0  
 (coating compns. for delivering medicament from surface of medical device)  
 L44 ANSWER 2 OF 32 HCA COPYRIGHT 2005 ACS on STN  
 134:223497 Radiation-curable, **cyanoacrylate**-containing **compositions** and photocurability. Misiak, Hanns R. (Loctite

Corp., USA). PCT Int. Appl. WO 2001018068 A1 **20010315**, 34 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-US24620 20000908. PRIORITY: US 1999-PV152945 19990909.

AB A radiation-curable compn. includes a **cyanoacrylate** component or a **cyanoacrylate**-contg. formulation, a photoinitiated radical generating component, and a photoinitiator component. A compn. of 2-Et **cyanoacrylate**, 100 ppm Bz2O2, and 2000 ppm 2,4,6-triphenylpyrilium tetrafluoroborate showed cure time (1000 W lamp) 29 s on a glass slide.

IT **25067-30-5P**, 2-Ethyl **cyanoacrylate** homopolymer  
**55231-19-1P**, 2-Ethyl **cyanoacrylate-styrene** copolymer  
 (radiation-curable, **cyanoacrylate** formulation contg.)

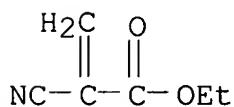
RN 25067-30-5 HCA

CN 2-Propenoic acid, 2-cyano-, ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7085-85-0

CMF C6 H7 N O2



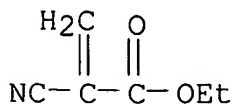
RN 55231-19-1 HCA

CN 2-Propenoic acid, 2-cyano-, ethyl ester, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 7085-85-0

CMF C6 H7 N O2



CM 2

CRN 100-42-5

CMF C8 H8

 $\text{H}_2\text{C}=\text{CH}-\text{Ph}$ 

- IC ICM C08F002-50  
ICS C08F236-12; C08F002-50; C08F004-42; C09D003-80; C08J007-04;  
C08J004-04
- CC 37-6 (Plastics Manufacture and Processing)
- ST photocurable **cyanoacrylate** radical generator onium  
photoinitiator; adhesive formulation photocurable hydrocarbyl  
**cyanoacrylate**
- IT Crosslinking  
(photochem.; of radiation-curable, **cyanoacrylate**  
formulation)
- IT Crosslinking catalysts  
(photochem.; radiation-curable, **cyanoacrylate**  
formulation contg.)
- IT **Adhesives**  
(photocurable; radiation-curable, **cyanoacrylate**  
formulation)
- IT 75-91-2, tert-Butylhydroperoxide 78-67-1, AIBN 80-15-9,  
Cumylhydroperoxide 80-43-3, Dicumylperoxide 94-36-0,  
Dibenzoylperoxide, uses 105-74-8, Lauroylperoxide 110-05-4,  
Di-tert-butylperoxide 119-61-9, Benzophenone, uses 447-31-4,  
Desyl chloride 448-61-3, 2,4,6-Triphenylpyrylium tetrafluoroborate  
614-45-9, tert-Butylperoxybenzoate 947-19-3, 1-Hydroxycyclohexyl  
phenyl ketone 2094-98-6, 1,1'-Azobis(cyclohexanecarbonitrile)  
2212-81-9 2559-35-5, 2,6-Diphenyl-4(p-tolyl)pyrylium  
tetrafluoroborate 2638-94-0, 4,4'-Azobis(4-cyanovaleric acid)  
3006-86-8, 1,1-Bis(tert-butylperoxy)cyclohexane 3524-62-7, Benzoin  
methyl ether 6175-45-7, 2,2-Diethoxyacetophenone 7473-98-5,  
2-Hydroxy-2-methyl-1-phenylpropan-1-one 10465-81-3,  
1,1'-(Azodicarbonyl)dipiperidine 24650-42-8, 2,2-  
Dimethoxyphenylacetophenone 24820-05-1 35096-76-5 54620-09-6  
70962-62-8 71868-10-5, 2-Methyl-1-[4-(methylthio)phenyl]-2-  
morpholino propan-1-one 75980-60-8, 2,4,6-  
Trimethylbenzoyldiphenylphosphine oxide 119313-12-1 145052-34-2  
189146-15-4, Lucirin TPO  
(radiation-curable, **cyanoacrylate** formulation contg.)
- IT **25067-30-5P**, 2-Ethyl **cyanoacrylate** homopolymer  
**55231-19-1P**, 2-Ethyl **cyanoacrylate-styrene**  
copolymer 73509-69-0P, 2-Ethyl **cyanoacrylate**

-phenylacetylene copolymer 329746-68-1P, Ethyl  
**cyanoacrylate**-tetrahydrofurfuryl methacrylate copolymer  
 329746-69-2P, Ethyl **cyanoacrylate**-isodecyl methacrylate  
 copolymer 329746-70-5P, Ethyl **cyanoacrylate**  
 -2-phenylethyl methacrylate copolymer 329746-71-6P, Ethyl  
**cyanoacrylate**-pentaerythritol tetraacrylate copolymer  
 329767-27-3P, Ethyl **cyanoacrylate**-trimethylphenyl acrylate  
 copolymer  
 (radiation-curable, **cyanoacrylate** formulation contg.)

L44 ANSWER 3 OF 32 HCA COPYRIGHT 2005 ACS on STN

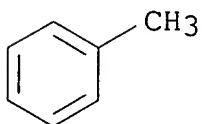
134:30350 **Cyanoacrylate**-containing chloroprene rubber-based  
 adhesive and its production. Buchholz, Anneliese (Renia-G.m.b.H.,  
 Germany). Ger. Offen. DE 19924749 A1 **20001207**, 4 pp.  
 (German). CODEN: GWXXBX. APPLICATION: DE 1999-19924749 19990531.

AB Chloroprene rubber-based contact adhesives for bonding metal ro  
 rubber are more effective when 2-5% **cyanoacrylate** is  
 incorporated into the compn. The **cyanoacrylate** is first  
 desensitized with a solvent in order to avoid spontaneous reactions  
 between the polychloroprene and the **cyanoacrylate**. With  
 the new adhesives the peel strength can be doubled or tripled  
 compared with well-known adhesives. Examples were given for  
 metal-SBR adhesion pairs using polychloroprene and Me  
 methacrylate-grafted polychloroprene contg. Me or Et  
**cyanoacrylate**.

IT **108-88-3**, Toluene, uses **141-78-6**, Ethyl acetate,  
 uses  
 (desensitizing solvent; in **cyanoacrylate**-contg.  
 chloroprene rubber adhesives for bonding SBR to metals)

RN 108-88-3 HCA

CN Benzene, methyl- (9CI) (CA INDEX NAME)



RN 141-78-6 HCA

CN Acetic acid ethyl ester (8CI, 9CI) (CA INDEX NAME)

Et-O-Ac

IT **9003-55-8**

(**styrene**-butadiene rubber, **cyanoacrylate**  
 -contg. chloroprene rubber adhesives for bonding to metals)

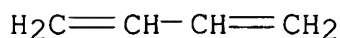
RN 9003-55-8 HCA

CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

CM 1

CRN 106-99-0

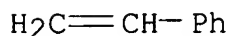
CMF C4 H6



CM 2

CRN 100-42-5

CMF C8 H8



IC ICM C09J111-00

ICS C09J004-04

CC 39-15 (Synthetic Elastomers and Natural Rubber)

ST chloroprene rubber adhesive **cyanoacrylate** contg

IT Neoprene rubber, uses

(Me methacrylate-grafted; **cyanoacrylate**-contg.

chloroprene rubber adhesives for bonding SBR to metals)

IT Adhesives

(contact; **cyanoacrylate**-contg. chloroprene rubber  
adhesives for bonding SBR to metals)

IT Neoprene rubber, uses

(**cyanoacrylate**-contg. chloroprene rubber adhesives for  
bonding SBR to metals)

IT Galvanized steel

(**cyanoacrylate**-contg. chloroprene rubber adhesives for  
bonding to SBR)

IT **Styrene**-butadiene rubber, processes

(**cyanoacrylate**-contg. chloroprene rubber adhesives for  
bonding to metals)

IT 137-05-3, Methyl **cyanoacrylate** 7085-85-0, Ethyl

**cyanoacrylate**

(**cyanoacrylate**-contg. chloroprene rubber adhesives for  
bonding SBR to metals)

IT 7429-90-5, Aluminum, processes 11107-04-3, V4A 12671-80-6, V2A

37195-46-3, St 37, processes

(**cyanoacrylate**-contg. chloroprene rubber adhesives for  
bonding to SBR)

IT 67-64-1, Acetone, uses 78-93-3, Methyl ethyl ketone, uses

**108-88-3**, Toluene, uses **141-78-6**, Ethyl acetate,

uses

(desensitizing solvent; in **cyanoacrylate**-contg. chloroprene rubber adhesives for bonding SBR to metals)

IT 9010-98-4

(neoprene rubber, Me methacrylate-grafted; **cyanoacrylate**-contg. chloroprene rubber adhesives for bonding SBR to metals)

IT 9010-98-4

(neoprene rubber, **cyanoacrylate**-contg. chloroprene rubber adhesives for bonding SBR to metals)

IT 118085-64-6, Chloroprene-methyl methacrylate graft copolymer

(rubber; **cyanoacrylate**-contg. chloroprene rubber adhesives for bonding SBR to metals)

IT 9003-55-8

(**styrene**-butadiene rubber, **cyanoacrylate**-contg. chloroprene rubber adhesives for bonding to metals)

L44 ANSWER 4 OF 32 HCA COPYRIGHT 2005 ACS on STN

132:323033 Single-component impact-resistant hydroxy-containing acrylic coating material. Huang, Jiaren; Ran, Shuguo; Ran, Shuyi; Huang, Jiali (Electrostatic Chemical Industry Technique Institute, Huangshi, Peop. Rep. China). Faming Zhuanli Shenqing Gongkai Shuomingshu CN 1203933 A **19990106**, 6 pp. (Chinese). CODEN: CNXXEV. APPLICATION: CN 1997-109157 19970628.

AB Title coating is composed of acrylic acid 15.2-20.4, 2-hydroxyethyl acrylate 13.1-17.3, **styrene** 6.4-13.6, n-butanol 7.4-10.7, xylene 22.8-30.8, Et .alpha.-**cyanoacrylate** 4.3-7.2, benzoyl peroxide 1.0-2.0%, pigment, and solvent.

IT **266681-24-7P**

(single-component impact-resistant hydroxy-contg. acrylic coating material)

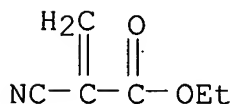
RN 266681-24-7 HCA

CN 2-Propenoic acid, 2-cyano-, ethyl ester, polymer with ethenylbenzene, 2-hydroxyethyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

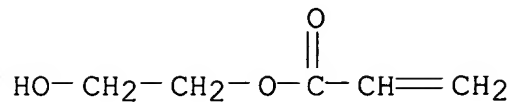
CRN 7085-85-0

CMF C6 H7 N O2



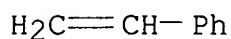
CM 2

CRN 818-61-1  
CMF C5 H8 O3



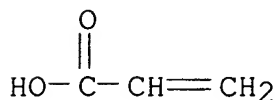
CM 3

CRN 100-42-5  
CMF C8 H8

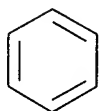


CM 4

CRN 79-10-7  
CMF C3 H4 O2



IT **1330-20-7**, Xylene, uses  
(single-component impact-resistant hydroxy-contg. acrylic coating material)  
RN 1330-20-7 HCA  
CN Benzene, dimethyl- (9CI) (CA INDEX NAME)



2 ( D1-Me )

IC ICM C09D133-02  
CC 42-7 (Coatings, Inks, and Related Products)  
IT **266681-24-7P**  
(single-component impact-resistant hydroxy-contg. acrylic coating)

material)  
IT 71-36-3, n-Butanol, uses **1330-20-7**, Xylene, uses  
(single-component impact-resistant hydroxy-contg. acrylic coating  
material)

L44 ANSWER 5 OF 32 HCA COPYRIGHT 2005 ACS on STN  
128:115934 Manufacture of durable sand mold incorporating a cooling  
jacket. Darby, David John (Darby, David John, UK). Brit. UK Pat.  
Appl. GB 2312184 A1 **19971022**, 20 pp. (English). CODEN:  
BAXXDU. APPLICATION: GB 1997-7377 19970411. PRIORITY: GB 1996-7933  
19960417; GB 1996-23299 19961108.

AB Durable mold suitable inter alia for reproducing in com. quantities  
and materials a rapid prototype of article, is manufd. by forming a  
porous mold using sand coated with thermosetting resin to a heated  
pattern, cooling, removing the pattern and impregnating at least  
those interstices near its surface with a liq. chem. which sets hard  
and heat-resistant, such as **cyanoacrylate**, either by  
suction, pressure, immersion or coating. A porous mold  
incorporating a cooling jacket is made by applying sand coated with  
thermosetting resin to a heated pattern removing surplus sand to  
leave a fused layer adjacent the pattern, laying a sheet of a  
**thermoplastic** material capable of being burned off, such as  
**polystyrene**, over the surface of the hot layer of follow the  
contours of the pattern, reapplying resin-coated sand over the  
sheet, and heating to fuse the reapplied sand while burning off the  
sheet to leave a void constituting the cooling jacket.

IT **9003-53-6, Polystyrene**  
(manuf. of durable sand mold incorporating a cooling jacket)

RN 9003-53-6 HCA

CN Benzene, ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5

CMF C8 H8

H<sub>2</sub>C=CH-Ph

IC ICM B29C033-38

ICS B22C001-22; B28B001-30; B29C033-02; B29C041-12

ICI B29K103-08, B29L031-00

CC 38-2 (Plastics Fabrication and Uses)

Section cross-reference(s): 55, 56

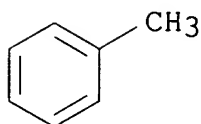
IT **9003-53-6, Polystyrene**

(manuf. of durable sand mold incorporating a cooling jacket)

L44 ANSWER 6 OF 32 HCA COPYRIGHT 2005 ACS on STN



- 126:104486 Reactivity in radical polymerization. An improved method for the prediction of monomer reactivity ratios and transfer constants. Jenkins, Aubrey D.; Jenkins, Jitka (School Chemistry Molecular Sciences, University Sussex, Brighton, BN1 9QJ, UK). Macromolecular Symposia, 111, 159-169 (English) **1996**. CODEN: MSYMEC. ISSN: 1022-1360. Publisher: Huethig & Wepf.
- AB Half a century after the Q-e scheme was promulgated, a substantially improved method for predicting monomer reactivity ratios and transfer consts. was developed from the Patterns of Reactivity scheme. It is based on the same premise as its predecessors, that reactivity is controlled partly by thermodyn. and partly by polar factors, but the new treatment yields values much closer, on av., to the reported exptl. data. Data for several comonomers for **styrene**, Me methacrylate, Me acrylate, methacrylonitrile, and acrylonitrile are given.
- IT **108-88-3**, Toluene, uses  
(chain transfer agent; improved method for prediction of monomer reactivity ratios and transfer consts.)
- RN 108-88-3 HCA
- CN Benzene, methyl- (9CI) (CA INDEX NAME)



- CC 35-3 (Chemistry of Synthetic High Polymers)
- IT **108-88-3**, Toluene, uses 109-79-5, n-Butyl mercaptan  
121-44-8, uses 558-13-4, Tetrabromomethane 7447-39-4, Copper dichloride, uses 7705-08-0, Iron trichloride, uses  
(chain transfer agent; improved method for prediction of monomer reactivity ratios and transfer consts.)
- IT 75-01-4, reactions 75-35-4, Vinylidene chloride, reactions  
78-79-5, Isoprene, reactions 78-85-3, Methylacrolein 79-01-6,  
Trichloroethylene, reactions 80-62-6, Methyl methacrylate  
96-33-3, Methyl acrylate 97-86-9, Iso-butyl methacrylate 97-88-1  
100-42-5, **Styrene**, reactions 100-43-6 100-69-6,  
Pyridine, 2-vinyl 107-02-8, Acrolein, reactions 107-13-1,  
2-Propenenitrile, reactions 108-05-4, Acetic acid ethenyl ester,  
reactions 108-31-6, 2,5-Furandione, reactions 109-92-2  
110-75-8, Vinyl 2-chloroethyl ether 126-98-7, Methylacrylonitrile  
126-99-8 131-17-9, Diallyl phthalate 137-05-3, Methyl .alpha.-  
**cyano-acrylate** 140-76-1, 2-Methyl-5-vinyl-  
pyridine 208-96-8, Acenaphthylene 536-74-3, Phenylacetylene  
814-68-6, Acryloyl chloride 924-42-5, N-Methylolacrylamide  
1123-84-8, 2,5-Dichlorostyrene 1606-52-6,  
Oxazoline-2,2-iso-propenyl, -4,4-dimethyl 2206-89-5, 2-Chloroethyl

acrylate 5408-74-2, Pyridine, 5-ethyl-2-vinyl 10471-78-0,  
Oxazoline-2,2-iso-propenyl 11111-50-5, Tetrachlorohexatriene  
15666-89-4, Phenyl .alpha.-**cyanoacrylate** 24345-81-1,  
Isobutyl vinyl sulfide

(improved method for prediction of monomer reactivity ratios and  
transfer consts.)

L44 ANSWER 7 OF 32 HCA COPYRIGHT 2005 ACS on STN

126:32621 **Cyanoacrylate**-based adhesive **compositions**

with improved thermal shock resistance. Oosawa, Nobuo; Mikuni,  
Hiroyuki; Fujii, Tatsuo; Takeuchi, Hiroshi (Three Bond Co Ltd,  
Japan; Takeda Chemical Industries Ltd). Jpn. Kokai Tokkyo Koho JP  
08259899 A2 **19961008** Heisei, 11 pp. (Japanese). CODEN:  
JKXXAF. APPLICATION: JP 1995-101554 19950323.

AB The comps. are composed of (A) **cyanoacrylate** monomers,  
(B) elastic polymers compatible or miscible with A, and (C)  
core-shell polymers consisting of elastic core polymer and glassy  
shell polymer compatible but immiscible with A. Thus, 36.0 g Et  
acrylate was polymd. with Bu acrylate 2889.9, 1,4-butylene glycol  
diacrylate 14.8, and allyl methacrylate 59.3 g by emulsion polymn.  
at 90.degree. to give a core latex, which was further copolymd. with  
995.0 g Me methacrylate and 5.0 g 1,4-butylene glycol diacrylate at  
90.degree., cooled, and filtered to give a core-shell polymer  
(wt.-av. grain size 542 nm). Then, 300 g Et .alpha.-  
**cyanoacrylate** was blended with 30 g Vamac G and 30 g the  
core-shell polymer, and stirred at 50.degree. to give an adhesive,  
with which a pair of polished steel pieces were laminated and fixed  
to give a test piece showing tensile shear strength (JIS K 6861)  
12.4 MPa for 8 thermal cycles (60.degree. for 3 h and -40.degree.  
for 3 h) and 10.2 MPa for 28 cycles.

IT **177155-82-7P**, Allyl methacrylate-butyl acrylate-1,4-butylene  
glycol diacrylate-divinylbenzene-ethyl acrylate-methyl methacrylate-  
**styrene** graft copolymer

(**cyanoacrylate**-based adhesives with improved thermal  
shock resistance)

RN 177155-82-7 HCA

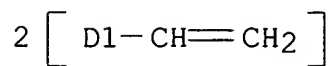
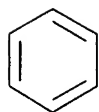
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with  
1,4-butanediyl di-2-propenoate, butyl 2-propenoate,  
diethenylbenzene, ethenylbenzene, ethyl 2-propenoate and 2-propenyl  
2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 1321-74-0

CMF C10 H10

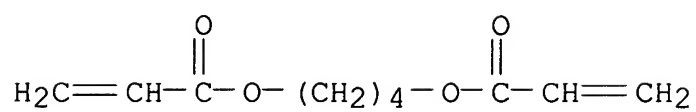
CCI IDS



CM 2

CRN 1070-70-8

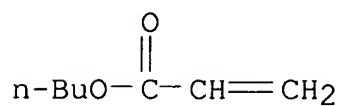
CMF C10 H14 O4



CM 3

CRN 141-32-2

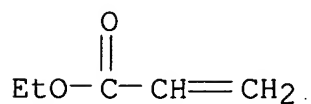
CMF C7 H12 O2



CM 4

CRN 140-88-5

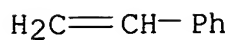
CMF C5 H8 O2



CM 5

CRN 100-42-5

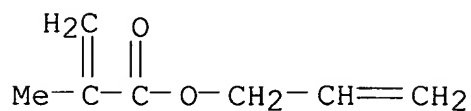
CMF C8 H8



CM 6

CRN 96-05-9

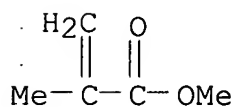
CMF C7 H10 O2



CM 7

CRN 80-62-6

CMF C5 H8 O2



IT **25067-29-2P**, Poly(methyl .alpha.-**cyanoacrylate**)  
**25067-30-5P**, Poly(ethyl .alpha.-**cyanoacrylate**)  
 (**cyanoacrylate**-based adhesives with improved thermal  
 shock resistance)

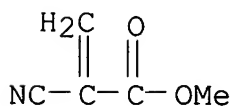
RN 25067-29-2 HCA

CN 2-Propenoic acid, 2-cyano-, methyl ester, homopolymer (9CI) (CA  
 INDEX NAME)

CM 1

CRN 137-05-3

CMF C5 H5 N O2



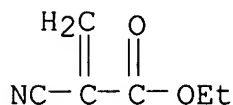
RN 25067-30-5 HCA

CN 2-Propenoic acid, 2-cyano-, ethyl ester, homopolymer (9CI) (CA  
 INDEX NAME)

CM 1

CRN 7085-85-0

CMF C6 H7 N O2



IC ICM C09J004-04

ICS C09J004-04

CC 38-3 (Plastics Fabrication and Uses)

ST **cyanoacrylate** adhesive core shell polymer blend; thermal shock resistant adhesive **cyanoacrylate**

IT Nitrile rubber, uses

( **cyanoacrylate**-based adhesives with improved thermal shock resistance)

IT Synthetic rubber, uses

(ethylene-Me acrylate-mono-Et maleate rubber, Vamac G; **cyanoacrylate**-based adhesives with improved thermal shock resistance)IT **Adhesives**(heat-resistant; **cyanoacrylate**-based adhesives with improved thermal shock resistance)

IT Urethane rubber, uses

(polyester-; **cyanoacrylate**-based adhesives with improved thermal shock resistance)IT **Adhesives**(thermal shock-resistant; **cyanoacrylate**-based adhesives with improved thermal shock resistance)IT **177155-82-7P**, Allyl methacrylate-butyl acrylate-1,4-butylene glycol diacrylate-divinylbenzene-ethyl acrylate-methyl methacrylate-**styrene** graft copolymer 184533-99-1P 184534-00-7P( **cyanoacrylate**-based adhesives with improved thermal shock resistance)IT **25067-29-2P**, Poly(methyl .alpha.-**cyanoacrylate**)**25067-30-5P**, Poly(ethyl .alpha.-**cyanoacrylate**)26877-41-8P, Poly(ethoxyethyl .alpha.-**cyanoacrylate**)30209-88-2P, Poly(allyl .alpha.-**cyanoacrylate**)

118339-17-6P, Allyl methacrylate-butyl acrylate-1,4-butylene glycol diacrylate-ethyl acrylate-methyl methacrylate graft copolymer

( **cyanoacrylate**-based adhesives with improved thermal shock resistance)

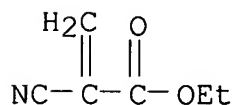
IT 9003-18-3

(nitrile rubber, **cyanoacrylate**-based adhesives with improved thermal shock resistance)

- IT 54545-50-5  
(rubber; **cyanoacrylate**-based adhesives with improved thermal shock resistance)
- L44 ANSWER 8 OF 32 HCA COPYRIGHT 2005 ACS on STN  
125:278130 **2-Cyanoacrylate compositions** for quick-setting instant adhesives for joining nonbondable materials. Harutake, Masamitsu; Kihara, Kazuo; Fukuzawa, Minoru (Alpha Techno Co, Japan). Jpn. Kokai Tokkyo Koho JP 08209074 A2 **19960813** Heisei, 5 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1995-43531 19950207.
- AB The title compns. with good initial adhesive strength comprise (A) **2-cyanoacrylates** and (B) 0.1-30 parts maleimide copolymers per 100 parts A. Thus, 100 parts Et **2-cyanoacrylate** was mixed with 5 parts Polyimilex PMS 101 (25:60:15 maleimide-Me methacrylate-**styrene** copolymer) to give an adhesive compn. showing setting time 2,8,4,8, and 1 s, resp., and shear bonding strength 80, 22, 26, 43, and 6 kg/cm<sup>2</sup>, resp., on bonding Fe to Fe, soft PVC to steel, soft PVC to soft PVC, polyoxymethylene to polyoxymethylene, and EPDM rubber to EPDM rubber.
- IT **182927-56-6**, Ethyl **2-cyanoacrylate**-maleimide-methyl methacrylate-**styrene** copolymer  
**182957-55-7**, Ethyl **2-cyanoacrylate**-maleimide-**styrene** copolymer **182957-66-0**  
(adhesive; compns. for quick-setting instant adhesives for nonbondable materials)
- RN 182927-56-6 HCA  
CN 2-Propenoic acid, 2-cyano-, ethyl ester, polymer with ethenylbenzene, methyl 2-methyl-2-propenoate and 1H-pyrrole-2,5-dione (9CI) (CA INDEX NAME)

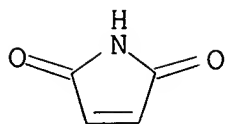
CM 1

CRN 7085-85-0  
CMF C6 H7 N O2



CM 2

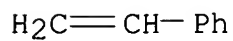
CRN 541-59-3  
CMF C4 H3 N O2



CM 3

CRN 100-42-5

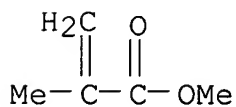
CMF C8 H8



CM 4

CRN 80-62-6

CMF C5 H8 O2



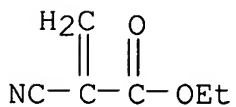
RN 182957-55-7 HCA

CN 2-Propenoic acid, 2-cyano-, ethyl ester, polymer with ethenylbenzene and 1H-pyrrole-2,5-dione (9CI) (CA INDEX NAME)

CM 1

CRN 7085-85-0

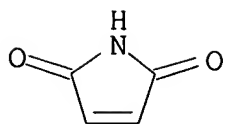
CMF C6 H7 N O2



CM 2

CRN 541-59-3

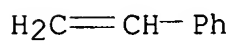
CMF C4 H3 N O2



CM 3

CRN 100-42-5

CMF C8 H8



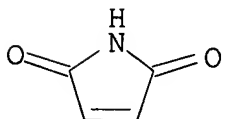
RN 182957-66-0 HCA

CN 2-Propenoic acid, 2-cyano-, methyl ester, polymer with  
ethenylbenzene, methyl 2-methyl-2-propenoate and  
1H-pyrrole-2,5-dione (9CI) (CA INDEX NAME)

CM 1

CRN 541-59-3

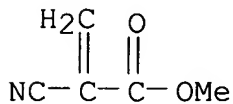
CMF C4 H3 N O2



CM 2

CRN 137-05-3

CMF C5 H5 N O2

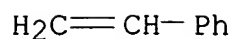


CM 3

CRN 100-42-5

CMF C8 H8

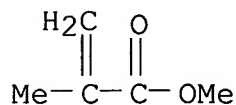




CM 4

CRN 80-62-6

CMF C5 H8 O2



IT **182957-61-5**, Ethyl 2-**cyanoacrylate**-maleic anhydride-maleimide-**styrene** copolymer (comps. for quick-setting instant adhesives for nonbondable materials)

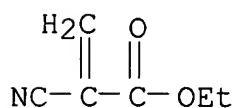
RN 182957-61-5 HCA

CN 2-Propenoic acid, 2-cyano-, ethyl ester, polymer with ethenylbenzene, 2,5-furandione and 1H-pyrrole-2,5-dione (9CI) (CA INDEX NAME)

CM 1

CRN 7085-85-0

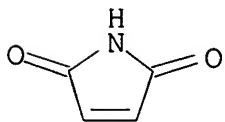
CMF C6 H7 N O2



CM 2

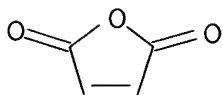
CRN 541-59-3

CMF C4 H3 N O2



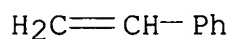
CM 3

CRN 108-31-6  
CMF C4 H2 O3



CM 4

CRN 100-42-5  
CMF C8 H8



IT 182927-57-7

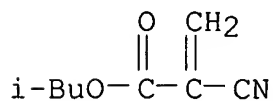
(instant adhesives contg. 2-cyanoacrylates and maleimide copolymers)

RN 182927-57-7 HCA

CN 2-Propenoic acid, 2-cyano-, 2-methylpropyl ester, polymer with ethenylbenzene, methyl 2-methyl-2-propenoate and 1H-pyrrole-2,5-dione (9CI) (CA INDEX NAME)

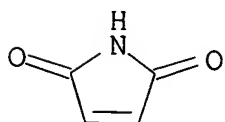
CM 1

CRN 1069-55-2  
CMF C8 H11 N O2



CM 2

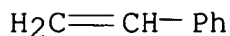
CRN 541-59-3  
CMF C4 H3 N O2



CM 3

CRN 100-42-5

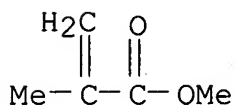
CMF C8 H8



CM 4

CRN 80-62-6

CMF C5 H8 O2



IC ICM C09J004-04

ICS C09J135-00

CC 38-3 (Plastics Fabrication and Uses)

ST instant adhesive **cyanoacrylate** maleimide copolymer blend;  
 iron bonding instant adhesive **cyanoacrylate**; PVC bonding  
 instant adhesive **cyanoacrylate**; steel bonding instant  
 adhesive **cyanoacrylate**; polyoxymethylene bonding instant  
 adhesive **cyanoacrylate**; EPDM rubber bonding instant  
 adhesive **cyanoacrylate**

IT **Adhesives**

(instant; compns. contg. **cyanoacrylates** and maleimide  
 copolymers for joining nonbondable materials)

IT **182927-56-6**, Ethyl 2-**cyanoacrylate**  
 -maleimide-methyl methacrylate-**styrene** copolymer

**182957-55-7**, Ethyl 2-**cyanoacrylate**-maleimide-  
**styrene** copolymer **182957-66-0**

(adhesive; compns. for quick-setting instant adhesives for  
 nonbondable materials)

IT **182957-61-5**, Ethyl 2-**cyanoacrylate**-maleic  
 anhydride-maleimide-**styrene** copolymer

(compns. for quick-setting instant adhesives for nonbondable  
 materials)

IT **182927-57-7**

(instant adhesives contg. 2-**cyanoacrylates** and  
 maleimide copolymers)

L44 ANSWER 9 OF 32 HCA COPYRIGHT 2005 ACS on STN

125:177462 Surface-modified nanoparticles and method of making and using

them. Levy, Robert J.; Labhasetwar, Vinod; Song, Cunxian S. (USA). PCT Int. Appl. WO 9620698 A2 **19960711**, 170 pp. DESIGNATED STATES: W: AL, AM, AT, AU, CA, CH, CN, CZ, DE, DK, GB, HU, IS, JP, KE, LU, VN, MN, NO, US; RW: AT, BE, CH, DE, ES, FR, GB, IT, LU, MR, NE, NL, PT, SE, NL, SN. (English). CODEN: PIXXD2. APPLICATION: WO 1996-US476 19960104. PRIORITY: US 1995-369541 19950105; US 1995-389893 19950216.

AB Biodegradable controlled-release nanoparticles as sustained release bioactive agent delivery vehicles include surface modifying agents to target binding of the nanoparticles to tissues or cells of living systems, to enhance nanoparticle sustained release properties, and to protect nanoparticle-incorporated bioactive agents. Unique methods of making small (10 nm to 15 nm, and preferably 20 nm to 35 nm) nanoparticles having a narrow size distribution which can be surface-modified after the nanoparticles are formed is described. Techniques for modifying the surface include a lyophilization technique to produce a phys. adsorbed coating and epoxy-derivatization to functionalize the surface of the nanoparticles to covalently bind mols. of interest. The nanoparticles may also comprise hydroxy-terminated or epoxide-terminated and/or activated multiblock copolymers, having hydrophobic segments which may be polycaprolactone and hydrophilic segments. The nanoparticles are useful for local intravascular administration of smooth muscle inhibitors and antithrombogenic agents as part of interventional cardiac or vascular catheterization such as a balloon angioplasty procedure; direct application to tissues and/or cells for gene therapy, such as the delivery of osteotropic genes or gene segments into bone progenitor cells; or oral administration in an enteric capsule for delivery of protein/peptide based vaccines.

IT **75-09-2**, Methylene chloride, biological studies  
**141-78-6**, Ethyl acetate, biological studies  
(solvent; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

RN 75-09-2 HCA

CN Methane, dichloro- (8CI, 9CI) (CA INDEX NAME)

Cl-CH<sub>2</sub>-Cl

RN 141-78-6 HCA

CN Acetic acid ethyl ester (8CI, 9CI) (CA INDEX NAME)

Et-O-Ac

IT **9003-53-6, Polystyrene**

(surface-modified polymer controlled-release nanoparticles for

sustained drug delivery)

RN 9003-53-6 HCA

CN Benzene, ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5

CMF C8 H8

H<sub>2</sub>C=CH-Ph

IC A61K009-51

CC 63-6 (Pharmaceuticals)

IT 67-64-1, 2-Propanone, biological studies 67-66-3, Chloroform, biological studies 67-68-5, Dimethylsulfoxide, biological studies 68-12-2, Dimethylformamide, biological studies **75-09-2**, Methylene chloride, biological studies 109-99-9, biological studies 123-91-1, Dioxane, biological studies 127-19-5, Dimethylacetamide **141-78-6**, Ethyl acetate, biological studies 684-16-2, Hexafluoroacetone 920-66-1

(solvent; surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

IT 50-70-4, D-Glucitol, biological studies 57-09-0, Cetyl trimethyl ammonium bromide 57-10-3, Hexadecanoic acid, biological studies 57-88-5, Cholesterol, biological studies 69-65-8, D-Mannitol 102-71-6, Triethanolamine, biological studies 112-02-7, Hexadecyl trimethyl ammonium chloride 151-21-3, Sodium dodecyl sulfate, biological studies 577-11-7, Sodium dioctyl sulfosuccinate 1069-55-2, Isobutyl **cyanoacrylate** 3282-73-3, Didodecyltrimethyl ammonium bromide 7445-62-7 7727-43-7, Barium sulfate 8007-43-0, Sorbitan sesquioleate 9000-65-1, Tragacanth 9000-69-5, Pectin 9002-89-5, Polyvinyl alcohol 9002-92-0, Polyoxyethylene lauryl ether 9003-39-8, Polyvinyl pyrrolidone **9003-53-6, Polystyrene** 9004-32-4 9004-34-6, Cellulose, biological studies 9004-35-7, Cellulose acetate 9004-44-8, Cellulose phthalate 9004-64-2, Hydroxypropyl cellulose 9004-99-3 9005-49-6, Heparin, biological studies 9015-73-0 9050-04-8, CM-cellulose calcium 9050-31-1, Hydroxypropyl methyl cellulose phthalate 10103-46-5, Calcium phosphate 25322-68-3 106392-12-5, Poloxamer 110617-70-4, Poloxamine 128835-92-7, Lipofectin 180741-27-9

(surface-modified polymer controlled-release nanoparticles for sustained drug delivery)

L44 ANSWER 10 OF 32 HCA COPYRIGHT 2005 ACS on STN

124:178539 **Cyanoacrylate** copolymer adhesive

**compositions.** Mikuni, Hiroyuki; Fujii, Tatsuo; Takeuchi,

Hiroshi; Ooshima, Junji (Three Bond Co Ltd, Japan; Takeda Chemical Industries Ltd). Jpn. Kokai Tokkyo Koho JP 07331186 A2

**19951219** Heisei, 8 pp. (Japanese). CODEN: JKXXAF.

APPLICATION: JP 1994-155103 19940603.

- AB The title compns., with good shear and impact adhesion, useful for rapid-setting adhesives, are prepd. from **cyanoacrylate** monomers (e.g., Me .alpha.-**cyanoacrylate**, Et .alpha.-**cyanoacrylate**, allyl .alpha.-**cyanoacrylate**, ethoxyethyl .alpha.-**cyanoacrylate**) and core-shell copolymers having crosslinked monomers 0.2-4.0% and grafted monomers 0.2-5.0% (e.g., allyl methacrylate-Bu acrylate-1,4-butylene glycol diacrylate-Et acrylate-Me methacrylate copolymer).
- IT **174305-81-8**, Allyl methacrylate-butyl acrylate-1,4-butylene glycol diacrylate-divinylbenzene-ethyl acrylate-methyl .alpha.-**cyanoacrylate**-methyl methacrylate-**styrene** copolymer

(**cyanoacrylate** copolymer adhesive compns.)

RN 174305-81-8 HCA

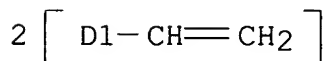
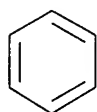
CN 2-Propenoic acid, 2-cyano-, methyl ester, polymer with 1,4-butanediyl di-2-propenoate, butyl 2-propenoate, diethenylbenzene, ethenylbenzene, ethyl 2-propenoate, methyl 2-methyl-2-propenoate and 2-propenyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME).

CM 1

CRN 1321-74-0

CMF C10 H10

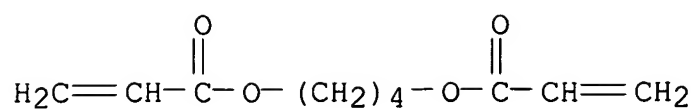
CCI IDS



CM 2

CRN 1070-70-8

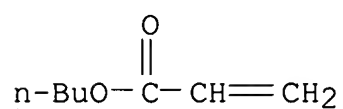
CMF C10 H14 O4



CM 3

CRN 141-32-2

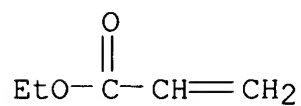
CMF C7 H12 O2



CM 4

CRN 140-88-5

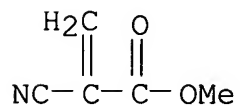
CMF C5 H8 O2



CM 5

CRN 137-05-3

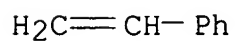
CMF C5 H5 N O2



CM 6

CRN 100-42-5

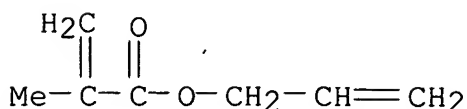
CMF C8 H8



CM 7

CRN 96-05-9

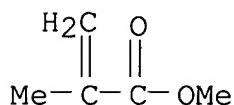
CMF C7 H10 O2



CM 8

CRN 80-62-6

CMF C5 H8 O2



IC ICM C09J004-04

CC 38-3 (Plastics Fabrication and Uses)

ST **cyanoacrylate** copolymer rapid setting adhesive; core shell acrylic polymer adhesiveIT **Adhesives**(rapid-setting, **cyanoacrylate** copolymer adhesive compns.)

IT 174305-76-1, Allyl methacrylate-butyl acrylate-1,4-butylene glycol diacrylate-ethyl acrylate-methyl .alpha.-**cyanoacrylate** -methyl methacrylate copolymer 174305-77-2, Allyl methacrylate-butyl acrylate-1,4-butylene glycol diacrylate-ethyl acrylate-ethyl .alpha.-**cyanoacrylate**-methyl methacrylate copolymer 174305-78-3, Allyl .alpha.-**cyanoacrylate**-allyl methacrylate-butyl acrylate-1,4-butylene glycol diacrylate-ethyl acrylate-methyl methacrylate copolymer 174305-79-4, Allyl methacrylate-butyl acrylate-1,4-butylene glycol diacrylate-ethoxyethyl .alpha.-**cyanoacrylate**-ethyl acrylate-methyl methacrylate copolymer 174305-80-7, Acrylonitrile-allyl methacrylate-butyl acrylate-1,4-butylene glycol diacrylate-ethyl acrylate-methyl .alpha.-**cyanoacrylate**-methyl methacrylate copolymer **174305-81-8**, Allyl methacrylate-butyl acrylate-1,4-butylene glycol diacrylate-divinylbenzene-ethyl acrylate-methyl .alpha.-**cyanoacrylate**-methyl methacrylate-**styrene** copolymer

(cyanoacrylate copolymer adhesive compns.)



L44 ANSWER 11 OF 32 HCA COPYRIGHT 2005 ACS on STN

122:57784 **Composite** adhesive for adhering materials having differing expansion properties. Miller, Jeremy P.; Umamaheswaran, Venkatakrishnan; Weiss, Kurt Albert; Wood, Charlie W. (General Electric Co., USA). Eur. Pat. Appl. EP 611646 A1 **19940824**, 19 pp. DESIGNATED STATES: R: DE, ES, FR, GB, IT, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1994-300880 19940207. PRIORITY: US 1993-18992 19930218.

AB A composite adhesive is used to adhere coating materials onto a substrate wherein the substrate material and the coating material have significantly different expansion properties, e.g., **thermoplastic** coating materials onto cellulose-based substrate materials. The adhesive comprises both a rigid adhesive such as an epoxy or acrylic and a laminating adhesive such as a rubber-based contact cement. The composite adhesive is used in prepg. composite articles such as countertops, sinks, furniture, profile edging, chem.-resistant lab tops, showers, etc. The adhesive is also possible to adhere together several individual articles to create a virtually seamless appearance between the individual articles.

IT **9003-55-8**

(rubber, composite adhesive for adhering materials having differing expansion properties)

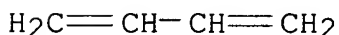
RN 9003-55-8 HCA

CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

CM 1

CRN 106-99-0

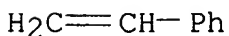
CMF C4 H6



CM 2

CRN 100-42-5

CMF C8 H8



IC ICM B32B007-12

ICS C09J007-02

CC 38-3 (Plastics Fabrication and Uses)

ST composite adhesive coating material substrate; **thermoplastic** adhesive cellulosic material; polyester composite adhesive;

particleboard **thermoplastic** adhesive; fiberboard **thermoplastic** adhesive; countertop **thermoplastic** coating adhesive

IT **Adhesives**

Doors

Glues

Tiles

(composite adhesive for adhering materials having differing expansion properties)

IT Rubber, butadiene-**styrene**, uses

(composite adhesive for adhering materials having differing expansion properties)

IT Rubber, synthetic

(**cyanoacrylate**, composite adhesive for adhering materials having differing expansion properties)

IT 9003-18-3 **9003-55-8**

(rubber, composite adhesive for adhering materials having differing expansion properties)

L44 ANSWER 12 OF 32 HCA COPYRIGHT 2005 ACS on STN

121:262443 French limiting values for occupational exposure to chemicals. Anon. (Fr.). Cahiers de Notes Documentaires, 153, 557-74 (French) **1993**. CODEN: CNDIBJ. ISSN: 0007-9952.

AB Limit values (suggested limiting values and max. permissible values) for occupational exposure to chems., including carcinogens, which have been published by the French Labor Ministry are presented in one table. This table is preceded by information on the following points: monitoring of workplace atmospheres (sampling and anal.; aerosols); permitted values (definitions and aims; additivity convention; elements and compds.; limiting occupational exposure values; carcinogens); mandatory values; and values recommended by the French National Health Insurance Fund (CNAM).

IT **60-29-7**, biological studies **75-09-2**,

Dichloromethane, biological studies **108-10-1**, Methyl isobutyl ketone **108-21-4**, Isopropyl acetate

**108-83-8**, Diisobutyl ketone **108-87-2**,

Methylcyclohexane **108-88-3**, Toluene, biological studies

**108-94-1**, Cyclohexanone, biological studies **109-60-4**

, Propyl acetate **110-19-0**, Isobutyl acetate

**110-54-3**, n-Hexane, biological studies **110-82-7**,

Cyclohexane, biological studies **123-86-4**, Butyl acetate

**141-78-6**, Acetic acid ethyl ester, biological studies

**142-82-5**, n-Heptane, biological studies **540-88-5**,

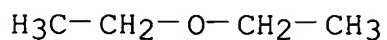
tert-Butyl acetate **563-80-4**, Methyl isopropyl ketone

**1330-20-7**, Xylene, biological studies

(occupational exposure; occupational exposure and stds. for limiting workplace concns. of chems. in France)

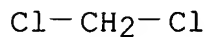
RN 60-29-7 HCA

CN Ethane, 1,1'-oxybis- (9CI) (CA INDEX NAME)



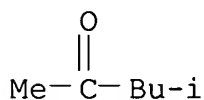
RN 75-09-2 HCA

CN Methane, dichloro- (8CI, 9CI) (CA INDEX NAME)



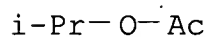
RN 108-10-1 HCA

CN 2-Pentanone, 4-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



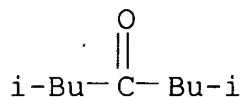
RN 108-21-4 HCA

CN Acetic acid, 1-methylethyl ester (9CI) (CA INDEX NAME)



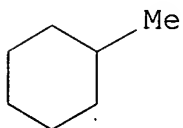
RN 108-83-8 HCA

CN 4-Heptanone, 2,6-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



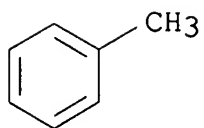
RN 108-87-2 HCA

CN Cyclohexane, methyl- (8CI, 9CI) (CA INDEX NAME)

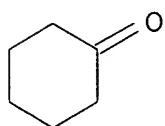


RN 108-88-3 HCA

CN Benzene, methyl- (9CI) (CA INDEX NAME)



RN 108-94-1 HCA  
CN Cyclohexanone (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 109-60-4 HCA  
CN Acetic acid, propyl ester (6CI, 8CI, 9CI) (CA INDEX NAME)

n-Pr-O-Ac

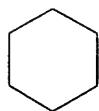
RN 110-19-0 HCA  
CN Acetic acid, 2-methylpropyl ester (9CI) (CA INDEX NAME)

i-Bu-O-Ac

RN 110-54-3 HCA  
CN Hexane (8CI, 9CI) (CA INDEX NAME)

Me-(CH<sub>2</sub>)<sub>4</sub>-Me

RN 110-82-7 HCA  
CN Cyclohexane (8CI, 9CI) (CA INDEX NAME)



RN 123-86-4 HCA  
CN Acetic acid, butyl ester (8CI, 9CI) (CA INDEX NAME)

n-Bu-O-Ac

RN 141-78-6 HCA  
 CN Acetic acid ethyl ester (8CI, 9CI) (CA INDEX NAME)

Et-O-Ac

RN 142-82-5 HCA  
 CN Heptane (8CI, 9CI) (CA INDEX NAME)

Me-(CH<sub>2</sub>)<sub>5</sub>-Me

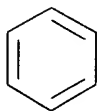
RN 540-88-5 HCA  
 CN Acetic acid, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

t-Bu-O-Ac

RN 563-80-4 HCA  
 CN 2-Butanone, 3-methyl- (8CI, 9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}-\text{C}-\text{Pr-i} \end{array}$$

RN 1330-20-7 HCA  
 CN Benzene, dimethyl- (9CI) (CA INDEX NAME)



2 ( D1-Me )

CC 59-5 (Air Pollution and Industrial Hygiene)  
 IT 50-00-0, Formaldehyde, biological studies 50-29-3, biological studies 54-11-5, Nicotine 55-63-0, Nitroglycerine 56-23-5, Tetrachloromethane, biological studies 56-38-2, Parathion 56-81-5, 1,2,3-Propanetriol, biological studies 57-14-7, 1,1-Dimethylhydrazine 57-24-9, Strychnine 57-50-1, biological studies 58-89-9, Lindane 60-29-7, biological studies 60-34-4, Methylhydrazine 60-57-1, Dieldrin 62-53-3, Aniline,

biological studies 62-73-7, Dichlorvos 62-74-8 63-25-2, Carbaryl 64-17-5, Ethanol, biological studies 64-18-6, Formic acid, biological studies 64-19-7, Acetic acid, biological studies 67-56-1, Methanol, biological studies 67-63-0, Isopropanol, biological studies 67-64-1, Acetone, biological studies 67-66-3, Trichloromethane, biological studies 67-72-1, Hexachloroethane 68-11-1, Thioglycolic acid, biological studies 68-12-2, biological studies 71-23-8, 1-Propanol, biological studies 71-36-3, n-Butyl alcohol, biological studies 71-43-2, Benzene, biological studies 71-55-6, 1,1,1-Trichloroethane 72-20-8, Endrin 72-43-5, Methoxychlor 74-83-9, Bromomethane, biological studies 74-87-3, Chloromethane, biological studies 74-89-5, Methylamine, biological studies 74-90-8, Hydrocyanic acid, biological studies 74-93-1, Methanethiol, biological studies 74-96-4, Bromoethane 74-97-5, Bromochloromethane 74-99-7, Propyne 75-00-3, Chloroethane 75-01-4, biological studies 75-04-7, Ethyl amine, biological studies 75-05-8, Acetonitrile, biological studies 75-07-0, Acetaldehyde, biological studies 75-08-1, Ethanethiol 75-09-2, Dichloromethane, biological studies 75-12-7, Formamide, biological studies 75-15-0, Carbon disulfide, biological studies 75-21-8, Oxirane, biological studies 75-25-2, Tribromomethane 75-31-0, Isopropylamine, biological studies 75-34-3, 1,1-Dichloroethane 75-35-4, 1,1-Dichloroethylene, biological studies 75-43-4, Dichlorofluoromethane 75-44-5, Carbonic dichloride 75-45-6, Chlorodifluoromethane 75-47-8, Iodoform 75-50-3, Trimethylamine, biological studies 75-52-5, Nitromethane, biological studies 75-56-9, biological studies 75-61-6, Dibromodifluoromethane 75-63-8, Bromotrifluoromethane 75-65-0, tert-Butyl alcohol, biological studies 75-69-4, Trichlorofluoromethane 75-71-8, Dichlorodifluoromethane 75-74-1, Tetramethyllead 75-99-0, 2,2-Dichloropropionic acid 76-03-9, Trichloroacetic acid, biological studies 76-06-2 76-11-9 76-12-0, 1,1,2,2-Tetrachlorodifluoroethane 76-13-1, 1,1,2-Trichlorotrifluoroethane 76-14-2, 1,2-Dichlorotetrafluoroethane 76-15-3, Chloropentafluoroethane 76-22-2, Camphor 77-47-4, Hexachlorocyclopentadiene 77-73-6, Dicyclopentadiene 77-78-1, Dimethyl sulfate 78-00-2, Tetraethyllead 78-10-4 78-30-8 78-34-2, Dioxathion 78-59-1, Isophorone 78-83-1, Isobutyl alcohol, biological studies 78-87-5, 1,2-Dichloropropane 78-92-2, sec-Butyl alcohol 78-93-3, Methyl ethyl ketone, biological studies 79-01-6, Trichloroethylene, biological studies 79-04-9, Chloroacetyl chloride 79-06-1, 2-Propenamide, biological studies 79-09-4, Propionic acid, biological studies 79-10-7, 2-Propenoic acid, biological studies 79-24-3, Nitroethane 79-27-6, 1,1,2,2-Tetrabromoethane 79-34-5, 1,1,2,2-Tetrachloroethane 79-41-4, biological studies 80-62-6 81-81-2 83-26-1 84-66-2, Diethyl phthalate 84-74-2, Dibutyl phthalate 85-00-7, Diquat

85-44-9, 1,3-Isobenzofurandione 86-50-0, Azinphosmethyl 86-88-4  
87-86-5, Pentachlorophenol 88-12-0, biological studies 88-89-1,  
Picric acid 89-72-5, o-sec-Butylphenol 90-04-0, o-Anisidine  
91-20-3, Naphthalene, biological studies 91-59-8, 2-Naphthylamine  
92-52-4, Biphenyl, biological studies 92-67-1, 4-Aminobiphenyl  
92-84-2, Phenothiazine 92-87-5, Benzidine 93-76-5, 2,4,5-T  
94-36-0, Dibenzoyl peroxide, biological studies 94-75-7, 2,4-D,  
biological studies 95-13-6, Indene 95-49-8, o-Chlorotoluene  
95-50-1, 1,2-Dichlorobenzene 95-53-4, o-Toluidine, biological  
studies 96-22-0, Diethyl ketone 96-33-3 96-69-5 97-77-8,  
Disulfiram 98-00-0, Furfuryl alcohol 98-01-1, Furfural,  
biological studies 98-51-1, p-tert-Butyltoluene 98-82-8, Cumene  
98-83-9, biological studies 98-95-3, Nitrobenzene, biological  
studies 99-08-1 100-01-6, 4-Nitroaniline, biological studies  
100-37-8, 2-Diethylaminoethanol 100-41-4, Ethylbenzene, biological  
studies 100-42-5, biological studies 100-44-7,  
.alpha.-Chlorotoluene, biological studies 100-61-8, biological  
studies 100-74-3, N-Ethylmorpholine 101-14-4,  
3,3'-Dichloro-4,4'-diaminodiphenylmethane 101-68-8 101-84-8D,  
Diphenyl ether, chloro derivs. 102-54-5, Ferrocene 102-81-8,  
N,N-Dibutylaminoethanol 104-94-9, p-Anisidine 105-46-4,  
sec-Butyl acetate 105-60-2, biological studies 106-35-4,  
3-Heptanone 106-46-7, 1,4-Dichlorobenzene 106-50-3,  
p-Phenylenediamine, biological studies 106-51-4, p-Benzoquinone,  
biological studies 106-89-8, biological studies 106-92-3  
106-97-8, Butane, biological studies 107-02-8, 2-Propenal,  
biological studies 107-05-1, 3-Chloropropene 107-06-2,  
1,2-Dichloroethane, biological studies 107-07-3, biological  
studies 107-13-1, 2-Propenenitrile, biological studies 107-15-3,  
1,2-Ethanediamine, biological studies 107-18-6, Allyl alcohol,  
biological studies 107-19-7, Propargyl alcohol 107-20-0,  
Chloroacetaldehyde 107-21-1, 1,2-Ethanediol, biological studies  
107-31-3, Methyl formate 107-41-5, Hexylene glycol 107-49-3  
107-66-4, Dibutyl phosphate 107-87-9, Methyl propyl ketone  
107-98-2, 1-Methoxy-2-propanol 108-03-2, 1-Nitropropane  
108-05-4, Acetic acid ethenyl ester, biological studies  
**108-10-1**, Methyl isobutyl ketone 108-11-2,  
4-Methyl-2-pentanol 108-18-9, Diisopropylamine 108-20-3,  
Diisopropyl ether **108-21-4**, Isopropyl acetate 108-24-7,  
Acetic anhydride 108-31-6, 2,5-Furandione, biological studies  
108-46-3, Resorcinol, biological studies 108-57-6,  
1,3-Divinylbenzene **108-83-8**, Diisobutyl ketone 108-84-9  
**108-87-2**, Methylcyclohexane **108-88-3**, Toluene,  
biological studies 108-90-7, Chlorobenzene, biological studies  
108-91-8, Cyclohexanamine, biological studies 108-93-0,  
Cyclohexanol, biological studies **108-94-1**, Cyclohexanone,  
biological studies 108-95-2, Phenol, biological studies  
108-98-5, Phenyl mercaptan, biological studies 109-59-1,

2-Isopropoxyethanol **109-60-4**, Propyl acetate 109-66-0, Pentane, biological studies 109-73-9, Butylamine, biological studies 109-79-5, Butanethiol 109-86-4, 2-Methoxyethanol 109-87-5, Methylal 109-89-7, biological studies 109-94-4, Ethyl formate 109-99-9, biological studies 110-12-3, Methyl isoamyl ketone **110-19-0**, Isobutyl acetate 110-43-0, 2-Heptanone 110-49-6, 2-Methoxyethyl acetate **110-54-3**, n-Hexane, biological studies 110-62-3, Valeraldehyde 110-80-5, 2-Ethoxyethanol **110-82-7**, Cyclohexane, biological studies 110-83-8, Cyclohexene, biological studies 110-86-1, Pyridine, biological studies 110-91-8, Morpholine, biological studies 111-15-9, 2-Ethoxyethyl acetate 111-30-8, Pentanedial 111-40-0, 111-42-2, Diethanolamine, biological studies 111-44-4, Bis(2-chloroethyl) ether 111-65-9, Octane, biological studies 111-76-2, 2-Butoxyethanol 111-84-2, Nonane 114-26-1, Propoxur 115-29-7, Endosulfan 115-77-5, biological studies 115-86-6, Triphenyl phosphate 115-90-2, Fensulfothion 117-81-7, Bis(2-ethylhexyl) phthalate 118-52-5, 1,3-Dichloro-5,5-dimethylhydantoin 118-96-7, 2,4,6-Trinitrotoluene 120-80-9, 1,2-Benzenediol, biological studies 120-82-1, 1,2,4-Trichlorobenzene 121-44-8, biological studies 121-45-9, Trimethyl phosphite 121-69-7, N,N-Dimethylaniline, biological studies 121-75-5, Malathion 121-82-4, Hexogen

(occupational exposure; occupational exposure and stds. for limiting workplace concns. of chems. in France)

IT 122-39-4, Diphenylamine, biological studies 122-60-1 123-19-3, Dipropyl ketone 123-31-9, 1,4-Benzenediol, biological studies 123-42-2, Diacetone alcohol 123-51-3, Isoamyl alcohol 123-73-9, trans-2-Butenal **123-86-4**, Butyl acetate 123-91-1, 1,4-Dioxane, biological studies 123-92-2, Isoamyl acetate 124-40-3, Dimethylamine, biological studies 126-73-8, Tributyl phosphate, biological studies 126-98-7 126-99-8, 2-Chloro-1,3-butadiene 127-18-4, Perchloroethylene, biological studies 127-19-5, N,N-Dimethylacetamide 128-37-0, 2,6-Di-tert-butyl-p-cresol, biological studies 131-11-3 133-06-2 136-78-7 137-05-3, Methyl 2-**cyanoacrylate** 137-26-8 138-22-7, Butyl lactate 140-88-5 141-32-2 141-43-5, biological studies 141-66-2, Dicrotophos **141-78-6**, Acetic acid ethyl ester, biological studies 141-79-7, Mesityl oxide 142-64-3 **142-82-5**, n-Heptane, biological studies 144-62-7, Ethanedioic acid, biological studies 148-01-6, 3,5-Dinitro-o-toluamide 150-76-5, 4-Methoxyphenol 156-62-7, Calcium cyanamide 287-92-3, Cyclopentane 298-00-0, Methylparathion 298-02-2 298-04-4, Disulfoton 299-84-3, Fenchlorphos 299-86-5, Cruformate 300-76-5 302-01-2, Hydrazine, biological studies 309-00-2, Aldrin 314-40-9, Bromacil 330-54-1, Diuron 333-41-5 353-50-4, Carbonyl fluoride 409-21-2, Silicon carbide (SiC), biological studies 420-04-2,



Cyanamide 460-19-5, Cyanogen 471-34-1, Calcium carbonate, biological studies 479-45-8, Tetryl 504-29-0, 2-Aminopyridine 506-77-4, Cyanogen chloride 509-14-8, Tetranitromethane 532-27-4, .alpha.-Chloroacetophenone 534-52-1, 4,6-Dinitro-o-cresol **540-88-5**, tert-Butyl acetate 541-85-5, 5-Methyl-3-heptanone 542-88-1 542-92-7, Cyclopentadiene, biological studies 546-93-0, Magnesium carbonate 552-30-7, Trimellitic anhydride 556-52-5, Glycidol 557-05-1, Zinc stearate 558-13-4, Tetrabromomethane 563-12-2, Diethion **563-80-4**, Methyl isopropyl ketone 583-60-8, 2-Methylcyclohexanone 591-78-6, 2-Hexanone 594-42-3, Perchloromethyl mercaptan 594-72-9, 1,1-Dichloro-1-nitroethane 598-56-1, N,N-Dimethylethylamine 600-25-9, 1-Chloro-1-nitropropane 603-34-9, Triphenylamine 624-83-9, Methyl isocyanate 626-17-5, 1,3-Benzenedicarbonitrile 627-13-4, n-Propyl nitrate 628-63-7, Amyl acetate 628-96-6 629-73-2, Cetene 630-08-0, Carbon monoxide, biological studies 638-21-1, Phenylphosphine 681-84-5 684-16-2, Hexafluoroacetone 768-52-5, N-Isopropylaniline 822-06-0 944-22-9, Fonofos 999-61-1, 2-Hydroxypropyl acrylate 1189-85-1 1300-73-8, Xylidine 1303-86-2, Boron oxide (B2O3), biological studies 1303-96-4, Borax (B4Na2O7.10H2O) 1304-82-1, Bismuth telluride (Bi2Te3) 1305-62-0, Calcium hydroxide (Ca(OH)2), biological studies 1305-78-8, Calcium oxide, biological studies 1306-19-0, Cadmium oxide (CdO), biological studies 1309-37-1, Ferric oxide, biological studies 1309-48-4, Magnesium oxide, biological studies 1310-58-3, Potassium hydroxide, biological studies 1310-73-2, Sodium hydroxide, biological studies 1314-13-2, Zinc oxide, biological studies 1314-56-3, Phosphorus pentoxide, biological studies 1314-80-3, Phosphorus pentasulfide 1317-35-7, Manganese oxide (Mn3O4) 1319-77-3, Cresol 1321-64-8, Pentachloronaphthalene 1321-65-9, Trichloronaphthalene 1327-53-3, Arsenic oxide (As2O3) **1330-20-7**, Xylene, biological studies 1330-43-4, Boron sodium oxide (B4Na2O7) 1335-87-1, Hexachloronaphthalene 1335-88-2, Tetrachloronaphthalene 1338-23-4, Methyl ethyl ketone peroxide 1344-28-1, Aluminum oxide (Al2O3), biological studies 1477-55-0, 1,3-Benzenedimethanamine 1563-66-2, Carbofuran 1912-24-9 1918-02-1 1929-82-4 2039-87-4, o-**Chlorostyrene** 2104-64-5 2179-59-1 2234-13-1, Octachloronaphthalene 2238-07-5, Diglycidyl ether 2425-06-1, Captafol 2426-08-6 2551-62-4 2698-41-1, o-Chlorobenzylidene malononitrile 2699-79-8, Sulfuryl fluoride 2921-88-2, Chlorpyrifos 2971-90-6, Clopidol 3173-72-6, 1,5-Naphthyldiisocyanate 3333-52-6, Tetramethylsuccinonitrile 3383-96-8, Temephos 3689-24-5 4016-14-2, Isopropyl glycidyl ether 4098-71-9 4685-14-7, Paraquat 6423-43-4 6923-22-4, Monocrotophos 7429-90-5, Aluminum, biological studies 7439-92-1, Lead, biological studies 7439-97-6D, Mercury, alkylated and arylated derivs. 7439-98-7, Molybdenum, biological studies

7440-02-0, Nickel, biological studies 7440-06-4, Platinum, biological studies 7440-16-6, Rhodium, biological studies 7440-21-3, Silicon, biological studies 7440-22-4D, Silver, compds. 7440-25-7, Tantalum, biological studies 7440-28-0, Thallium, biological studies 7440-31-5D, Tin, compds. 7440-36-0D, Antimony, compds. 7440-39-3, Barium, biological studies 7440-41-7, Beryllium, biological studies 7440-43-9, Cadmium, biological studies 7440-47-3, Chromium, biological studies 7440-50-8, Copper, biological studies 7440-58-6, Hafnium, biological studies 7440-62-2, Vanadium, biological studies 7440-65-5, Yttrium, biological studies 7446-09-5, Sulfur dioxide, biological studies 7553-56-2, Iodine, biological studies 7580-67-8, Lithium hydride 7616-94-6, Perchloryl fluoride 7631-90-5, Sodium bisulfite 7637-07-2, Boron trifluoride, biological studies 7646-85-7, Zinc chloride ( $\text{ZnCl}_2$ ), biological studies 7647-01-0, Hydrogen chloride, biological studies 7664-38-2, Phosphoric acid, biological studies 7664-39-3, Hydrofluoric acid, biological studies 7664-41-7, Ammonia, biological studies 7664-93-9, Sulfuric acid, biological studies 7681-49-4, Sodium fluoride, biological studies 7681-57-4 7697-37-2, Nitric acid, biological studies 7719-12-2, Phosphorus trichloride 7722-84-1, Hydrogen peroxide, biological studies 7722-88-5, Tetrasodium pyrophosphate 7726-95-6, Bromine, biological studies 7773-06-0, Ammonium sulfamate 7778-18-9, Calcium sulfate 7782-41-4, Fluorine, biological studies 7782-42-5, Graphite, biological studies 7782-50-5, Chlorine, biological studies 7782-65-2, Germanium tetrahydride 7783-06-4, Hydrogen sulfide, biological studies 7783-07-5, Hydrogen selenide 7783-54-2, Nitrogen trifluoride 7783-79-1, Selenium hexafluoride 7783-80-4, Tellurium hexafluoride 7784-42-1, Arsine 7786-34-7, Mevinphos 7789-30-2, Bromine pentafluoride 7790-91-2, Chlorine trifluoride 7803-51-2, Phosphine 7803-52-3, Stibine 7803-62-5, Silane, biological studies 8001-35-2, Toxaphene 8022-00-2 8065-48-3, Demeton 10025-87-3, Phosphoric trichloride 10026-13-8, Phosphorus pentachloride 10028-15-6, Ozone, biological studies 10049-04-4, Chlorine dioxide 10102-43-9, Nitrogen oxide ( $\text{NO}$ ), biological studies 10102-44-0, Nitrogen dioxide, biological studies 10210-68-1 11097-69-1, PCB 1254 12001-29-5, Chrysotile 12108-13-3, Tricarbonyl methylcyclopentadienylmanganese 12125-02-9, Ammonium chloride, biological studies 12179-04-3 12789-03-6, Chlordane 13463-40-6, Iron pentacarbonyl 13463-67-7, Titanium dioxide, biological studies 13494-80-9, Tellurium, biological studies 14464-46-1, Cristobalite ( $\text{SiO}_2$ ) 14484-64-1 14808-60-7, Quartz, biological studies 15468-32-3, Tridymite ( $\text{SiO}_2$ ) 16219-75-3 16752-77-5 16842-03-8 17702-41-9, Decaborane(14) 17804-35-2 19287-45-7, Diborane 19624-22-7, Pentaborane 20816-12-0, Osmium tetroxide 21087-64-9 21351-79-1, Cesium hydroxide 22224-92-6, Phenamiphos 25154-54-5

25551-13-7, Trimethylbenzene 25639-42-3, Methylcyclohexanol  
 26140-60-3, Terphenyl 26471-62-5 26628-22-8, Sodium azide  
 (Na(N3))

(occupational exposure; occupational exposure and stds. for  
 limiting workplace concns. of chems. in France)

L44 ANSWER 13 OF 32 HCA COPYRIGHT 2005 ACS on STN

121:59130 Modification of instant adhesive in **blending** of  
**cyanoacrylate** and SIS-g-MMA. Kuramochi, Tomohiro; Hiramoto,  
 Masanori; Kitajima, Masakazu; Kikuchi, Takehiko; Ibonai, Masaru  
 (Dep. Appl. Chem., Kogakuin Univ., Hachioji, 192, Japan). Nippon  
 Setchaku Gakkaishi, 30(5), 207-13 (Japanese) **1994**. CODEN:  
 NSEGE7. ISSN: 0916-4812.

AB The elastomer, **styrene**-isoprene triblock polymer (SIS),  
 was modified by graft polymn. with Me methacrylate (MMA) and the  
 graft polymer indicated an excellent compatibility with Et 2-  
**cyanoacrylate** (CA). The graft polymer was blended with CA  
 for modification of adhesion strength. The authors studied both the  
 relationship between grafting and adhesion strength using a  
 CA/SIS-g-MMA blend soln. and also the compatibility of SIS or  
 SIS-g-MMA with CA by SEM photograph. The adhesion strength of the  
 CA/SIS-g-MMA blend soln. was higher than that of the CA/SIS blend  
 soln.; tensile shear strength increased in proportion to the rise in  
 grafting in SIS-g-MMA soln.; T-peel strength decreased in proportion  
 to the rise in grafting. The tensile shear strength of the  
 CA/SIS-g-MMA blend soln. was lower than that of the CA bulk; the  
 T-peel strength of the CA/SIS-g-MMA blend soln. was higher than that  
 of CA bulk. It was found that T-peel strength of CA adhesive was  
 modified by blending CA with 5% SIS-g-MMA.

IT **134001-93-7P**, Isoprene-methyl methacrylate-**styrene**  
 graft copolymer  
 (prep. of, for modification of Et **cyanoacrylate**  
 instant adhesives)

RN 134001-93-7 HCA

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with  
 ethenylbenzene and 2-methyl-1,3-butadiene, graft (9CI) (CA INDEX  
 NAME)

CM 1

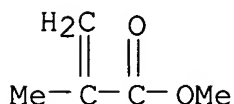
CRN 100-42-5

CMF C8 H8

H<sub>2</sub>C=CH-Ph

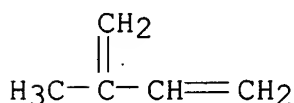
CM 2

CRN 80-62-6  
CMF C5 H8 O2



CM 3

CRN 78-79-5  
CMF C5 H8



- CC 38-3 (Plastics Fabrication and Uses)  
Section cross-reference(s): 39
- ST instant adhesive ethyl **cyanoacrylate** modification; acrylic **styrene** isoprene rubber modifier; methyl methacrylate grafted block copolymer; shear strength modified **cyanoacrylate** adhesive; tensile strength modified **cyanoacrylate** adhesive; peeling strength modified **cyanoacrylate** adhesive; adhesion strength modified **cyanoacrylate** adhesive
- IT **Adhesives**  
(instant, Et **cyanoacrylate**, modification by Me methacrylate-grafted **styrene**-isoprene block copolymer rubber for)
- IT Rubber, synthetic  
(isoprene-Me methacrylate-**styrene**, block, graft, for modification of Et **cyanoacrylate** instant adhesives)
- IT Rubber, synthetic  
(isoprene-**styrene**, block, triblock, modification of, Cariflex TR 1107, for Et **cyanoacrylate** instant adhesives)
- IT 7085-85-0, Ethyl 2-**cyanoacrylate**  
(instant adhesives, modification by Me methacrylate-grafted **styrene**-isoprene block copolymer rubbers for)
- IT 12597-69-2, Steel, uses  
(plates, Et **cyanoacrylate** adhesives for, modification by Me methacrylate-grafted **styrene**-isoprene block copolymer rubber in)
- IT **134001-93-7P**, Isoprene-methyl methacrylate-**styrene**

graft copolymer  
(prepn. of, for modification of Et **cyanoacrylate**  
instant adhesives)

L44 ANSWER 14 OF 32 HCA COPYRIGHT 2005 ACS on STN  
121:38030 (**Cyano**)**acrylate** ester-based adhesives for  
leather products. Xue, Zhichun (Peop. Rep. China). Faming Zhuanli  
Shenqing Gongkai Shuomingshu CN 1071681 A **19930505**, 7 pp.  
(Chinese). CODEN: CNXXEV. APPLICATION: CN 1991-109759 19911019.  
AB Low-cost easily curable title adhesives comprise acrylate ester (I)  
latex or polyvinyl acetal-modified I resin, and .alpha.-  
**cyanoacrylate** ester and use a mixed solvent contg. C4-6  
diketones (e.g., 2,4-pentanedione), isopropenyl acetate resin, C6H6  
or derivs., dichloromethane or CCl4, Me2CO, EtOH, p-xyleneol, and  
200# solvent oil.  
IT **9003-56-9**, ABS **25053-09-2**, MBS  
(latex, adhesive compn., for leather products)  
RN 9003-56-9 HCA  
CN 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene  
(9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

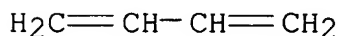
CMF C3 H3 N



CM 2

CRN 106-99-0

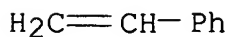
CMF C4 H6



CM 3

CRN 100-42-5

CMF C8 H8



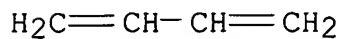
RN 25053-09-2 HCA

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with  
1,3-butadiene and ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 106-99-0

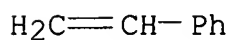
CMF C4 H6



CM 2

CRN 100-42-5

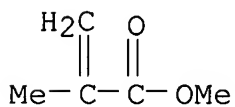
CMF C8 H8



CM 3

CRN 80-62-6

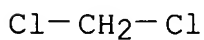
CMF C5 H8 O2



IT 75-09-2, Dichloromethane, uses 1330-20-7, Xylene,  
uses  
(mixed solvent, adhesive compn., for leather products)

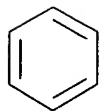
RN 75-09-2 HCA

CN Methane, dichloro- (8CI, 9CI) (CA INDEX NAME)



RN 1330-20-7 HCA

CN Benzene, dimethyl- (9CI) (CA INDEX NAME)

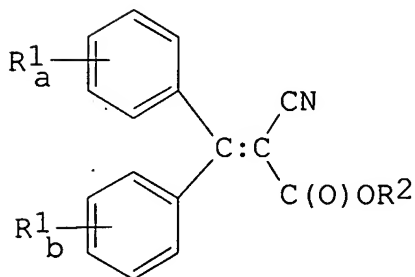


2 ( D1-Me )

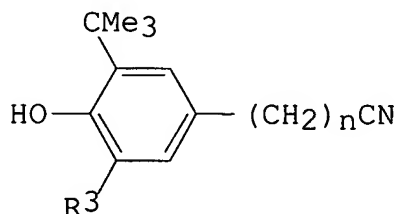
IC ICM C09J133-08  
 CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)  
 Section cross-reference(s): 38  
 ST acrylate ester resin adhesive leather; **cyanoacrylate** ester  
 adhesive leather; polyvinyl acetal modified acrylate adhesive  
 IT 79-10-7D, Acrylic acid, ester, polymers **9003-56-9**, ABS  
 15802-18-3D, .alpha.-Cyanoacrylic acid, ester, polymers  
 24937-78-8, EVA **25053-09-2**, MBS  
 (latex, adhesive compn., for leather products)  
 IT 56-23-5, Carbon tetrachloride, uses 64-17-5, Ethanol, uses  
 67-64-1, Acetone, uses 71-43-2, Benzene, uses **75-09-2**,  
 Dichloromethane, uses 91-66-7, Diethylaniline 95-87-4, p-Xylenol  
 100-42-5, **Styrene**, uses 108-22-5, Isopropenyl acetate  
 121-69-7, Dimethylaniline, uses 123-54-6, 2,4-Pentanedione, uses  
**1330-20-7**, Xylene, uses  
 (mixed solvent, adhesive compn., for leather products)

L44 ANSWER 15 OF 32 HCA COPYRIGHT 2005 ACS on STN  
 120:108789 **Thermoplastic** resin compositions with less lowering  
 of fluidity at heating and low fish eye formation during sheeting.  
 Suzuki, Takao; Ishikawa, Tatsuo; Era, Susumu; Mukoyama, Yoshuki;  
 Yagi, Masaki; Haruna, Tooru; Nishina, Takao; Hida, Etsuo (Hitachi  
 Chemical Co Ltd, Japan; Asahi Denka Kogyo KK). Jpn. Kokai Tokkyo  
 Koho JP 05230320 A2 **19930907** Heisei, 9 pp. (Japanese).  
 CODEN: JKXXAF. APPLICATION: JP 1992-30581 19920218.

GI



I



II

AB Title compns. with good impact and weather resistance, molding processability, and molding appearance, contain (A) 10-100 parts graft copolymers obtained by polymg. monomer mixts. (contg. monomers chosen from arom. vinyl compds., methacrylates, and cyanided vinyl compds.) in the presence of rubber-like polymers (prepd. by polymg. monomer mixts. contg. multifunctional monomers and C1-13 alkyl acrylates in the presence or absence of conjugated diene rubbers), (B) 0-90 parts copolymers obtained by polymg. monomer mixts. essentially contg. arom. vinyl compds. and cyanided vinyl compds. (A + B = 100 parts), and (C) .gtoreq.1 cyano compd. chosen from **cyanoacrylate** compds. I (R1 = alkyl, alkoxy, halo; R2 = C1-8 alkyl; a, b = 0-5 integer) and cyano-contg. phenolic compds. II (R3 = H, alkyl; n = 1-4 integer). Thus, a graft copolymer [prepd. from acrylonitrile 193, **styrene** 507, and a rubber-like polymer latex (prepd. from polybutadiene latex 300, Bu acrylate 700, and triallyl isocyanurate 14 parts) 300 parts] 675, Stylac AS 703 (acrylonitrile-**styrene** copolymer) 325, and ethyl-.beta.,.beta.-diphenyl-.alpha.-**cyanoacrylate** 100 parts were mixed and extruded to give pellets showing fluidity [melt flow rate (MI) at 250.degree. under 5 kg load] 13.4 (after 6 min), 7.1 (after 60 min), MI lowering rate 47%, and few fish eyes in the obtained sheets.

IT **9003-54-7**, Acrylonitrile-**styrene** copolymer  
 (blends with vinyl graft copolymers, contg. cyano compds., with good fluidity and fish eye prevention, Stylac AS 703)  
 RN 9003-54-7 HCA  
 CN 2-Propenenitrile, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

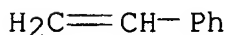
CMF C3 H3 N



CM 2

CRN 100-42-5

CMF C8 H8



IT **107709-73-9P**, Acrylonitrile-butadiene-butyl acrylate-



**styrene**-triallyl isocyanurate graft copolymer

**110970-11-1P**, Acrylonitrile-butyl acrylate-**styrene**

-triallyl isocyanurate graft copolymer

(prepn. of, blends with vinyl copolymers, contg. cyano compds.,  
with good fluidity and fish eye prevention)

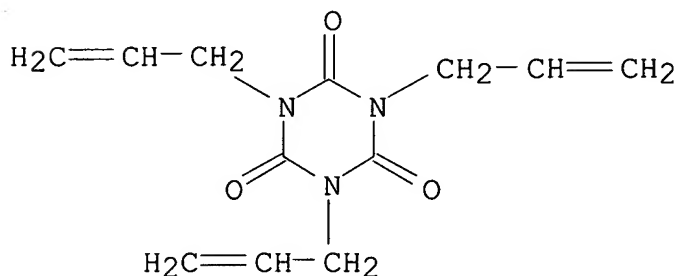
RN 107709-73-9 HCA

CN 2-Propenoic acid, butyl ester, polymer with 1,3-butadiene,  
ethenylbenzene, 2-propenenitrile and 1,3,5-tri-2-propenyl-1,3,5-  
triazine-2,4,6(1H,3H,5H)-trione, graft (9CI) (CA INDEX NAME)

CM 1

CRN 1025-15-6

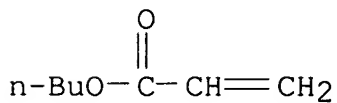
CMF C12 H15 N3 O3



CM 2

CRN 141-32-2

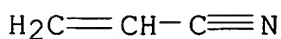
CMF C7 H12 O2



CM 3

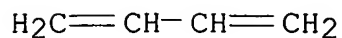
CRN 107-13-1

CMF C3 H3 N



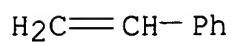
CM 4

CRN 106-99-0  
CMF C4 H6



CM 5

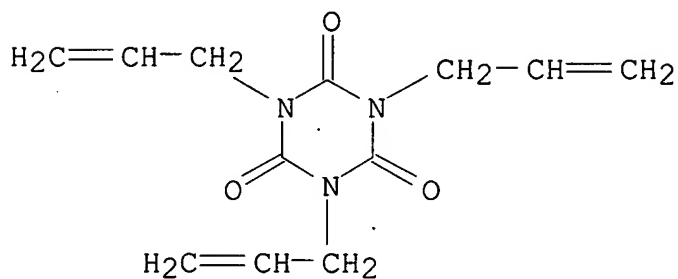
CRN 100-42-5  
CMF C8 H8



RN 110970-11-1 HCA  
CN 2-Propenoic acid, butyl ester, polymer with ethenylbenzene,  
2-propenenitrile and 1,3,5-tri-2-propenyl-1,3,5-triazine-  
2,4,6(1H,3H,5H)-trione, graft (9CI) (CA INDEX NAME)

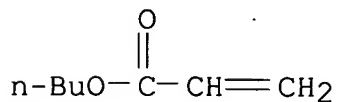
CM 1

CRN 1025-15-6  
CMF C12 H15 N3 O3



CM 2

CRN 141-32-2  
CMF C7 H12 O2



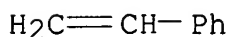
CM 3

CRN 107-13-1  
CMF C3 H3 N



CM 4

CRN 100-42-5  
CMF C8 H8



- IC ICM C08L051-04  
ICS C08K005-10; C08K005-13; C08L025-12; C08L051-00; C08L051-04  
CC 37-6 (Plastics Manufacture and Processing)  
Section cross-reference(s): 39  
ST cyano compd **thermoplastic** resin blend; graft copolymer  
**thermoplastic** resin blend; vinyl copolymer  
**thermoplastic** resin blend; fluidity **thermoplastic**  
resin blend  
IT **9003-54-7**, Acrylonitrile-**styrene** copolymer  
(blends with vinyl graft copolymers, contg. cyano compds., with  
good fluidity and fish eye prevention, Stylac AS 703)  
IT **107709-73-9P**, Acrylonitrile-butadiene-butyl acrylate-  
**styrene**-triallyl isocyanurate graft copolymer  
**110970-11-1P**, Acrylonitrile-butyl acrylate-**styrene**  
-triallyl isocyanurate graft copolymer  
(prepn. of, blends with vinyl copolymers, contg. cyano compds.,  
with good fluidity and fish eye prevention)  
IT 5232-99-5 29027-77-8  
(**thermoplastic** resin compns. contg., for good fluidity)
- L44 ANSWER 16 OF 32 HCA COPYRIGHT 2005 ACS on STN  
118:102887 Preventing polymerization of .alpha.-**cyanoacrylates**  
by incorporating an acid into plastic containers and processing  
apparatus. Lier, Rolf; Vogel, Rainer; Heine, Hans Joachim (Henkel  
K.-G.a.A., Germany). Ger. Offen. DE 4109105 A1 **19920924**,  
3 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1991-4109105  
19910320.
- AB A mixt. of a **thermoplastic** such as polyethylene and a  
solid acid such as p-toluenesulfonic acid (I) is extruded to form  
containers and plastic parts for .alpha.-**cyanoacrylate**  
ester adhesive-processing app. which prevent premature polymn. during  
storage or handling. A container extruded from polyethylene contg.

0.4% I and partially filled with Et .alpha.-**cyanoacrylate** (II) was heated five days at 80.degree. with no polymn. of II, vs. polymn. without I.

IT **9003-53-6D, Polystyrene**, sulfonated  
(polymn. inhibitors, for **cyanoacrylate** esters, plastic containers impregnated by)

RN 9003-53-6 HCA

CN Benzene, ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5

CMF C8 H8

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

IC ICM C07C255-23

ICS C07C253-32; C09J004-04; C09J011-02; C08K005-09; C08K005-42;  
C08K003-32; C08J005-20; B65D065-42; B65D085-84; B29C045-00;  
B29C049-00

ICA C08J007-00; B29C071-02; B29C071-04; B29C031-02; B01J004-00

ICI C08K003-32, C08K003-24

CC 35-2 (Chemistry of Synthetic High Polymers)  
Section cross-reference(s): 38

ST **cyanoacrylate** storage polymn inhibitor acid;  
toluenesulfonic acid stabilizer **cyanoacrylate** storage;  
polyethylene container stabilizer **cyanoacrylate**; adhesive  
**cyanoacrylate** stabilizer acid

IT Polymerization inhibitors  
(acids, for **cyanoacrylate** ester, plastic containers  
impregnated by)

IT Adhesives  
(**cyanoacrylate** esters, polymn. inhibitors for, acids  
as, plastic containers impregnated by)

IT Containers  
(plastic, acid-impregnated, for inhibiting polymn. of  
**cyanoacrylate** esters)

IT Cation exchangers  
(polymn. inhibitors, for **cyanoacrylate** ester, plastic  
containers impregnated by)

IT Carboxylic acids, uses  
Sulfonic acids, uses  
(polymn. inhibitors, for **cyanoacrylate** esters, plastic  
containers impregnated by)

IT 9002-88-4, Polyethylene 36427-14-2, Polypropene  
(acid-impregnated, extruded containers of, for inhibiting polymn.  
of **cyanoacrylate**)

- IT 25038-59-9, Poly(ethylene terephthalate), miscellaneous  
(acid-impregnated, extruded containers of, for inhibiting polymn.  
of **cyanoacrylate**)
- IT 57-11-4, Stearic acid, uses 77-92-9, Citric acid, uses 104-15-4,  
p-Toluenesulfonic acid, uses 110-16-7, Maleic acid, uses  
141-82-2, Malonic acid, uses 144-62-7, Oxalic acid, uses  
(polymn. inhibitor, for **cyanoacrylate** esters, plastic  
containers impregnated by)
- IT 137-05-3, Methyl .alpha.-**cyanoacrylate** 6606-65-1,  
Butyl-.alpha.-**cyanoacrylate** 6606-66-2, Propyl-.alpha.-  
**cyanoacrylate** 7085-85-0, Ethyl-.alpha.-  
**cyanoacrylate** 21982-43-4, 2-Ethoxyethyl-.alpha.-  
**cyanoacrylate** 27816-23-5, 2-Methoxyethyl-.alpha.-  
**cyanoacrylate**  
(polymn. inhibitors for, acids as, plastic containers impregnated  
by)
- IT **9003-53-6D, Polystyrene**, sulfonated  
(polymn. inhibitors, for **cyanoacrylate** esters, plastic  
containers impregnated by)
- L44 ANSWER 17 OF 32 HCA COPYRIGHT 2005 ACS on STN  
116:22590 Curing accelerator **compositions** for  
**cyanoacrylate** rapid-setting adhesives. Hiraiwa, Akihiko;  
Fujimoto, Yoshiaki (Toa Gosei Chemical Industry Co., Ltd., Japan).  
Jpn. Kokai Tokkyo Koho JP 03207779 A2 **19910911** Heisei, 7  
pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1990-1398  
19900108.
- AB The title compns. contain basic compds., water-sol. org. solvents,  
and water. Thus, N,N-diethylaniline 2, EtOH 63, and H2O 35 g were  
mixed to give a curing accelerator. When the accelerator was spread  
on a brown bakelite plate precoated with Aron Alpha 201, the  
adhesive was rapidly cured to form a transparent layer without  
damaging the surface appearance of the plate.
- IT **9003-56-9, Acrylonitrile-butadiene-styrene**  
copolymer  
(plates, **cyanoacrylate** rapid-setting adhesives for)
- RN 9003-56-9 HCA
- CN 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene  
(9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

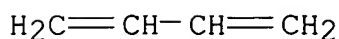
CMF C3 H3 N



CM 2

CRN 106-99-0

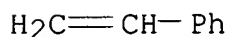
CMF C4 H6



CM 3

CRN 100-42-5

CMF C8 H8



IC ICM C09J011-04

ICS C09J011-06; C09J133-14

CC 38-3 (Plastics Fabrication and Uses)

ST curing accelerator **cyanoacrylate** adhesive; basic compd

curing accelerator adhesive

IT Crosslinking catalysts

(basic compds., for **cyanoacrylate** rapid-setting adhesives)

IT Phenolic resins, uses

(plates, **cyanoacrylate** rapid-setting adhesives for)

IT **Adhesives**

(rapid-setting, **cyanoacrylate**-based, curing accelerators for, basic compd. compns. as)

IT 91-66-7, N,N-Diethylaniline 91-67-8, N,N-Diethyl-m-toluidine

99-97-8, N,N-Dimethyl-p-toluidine 110-86-1, Pyridine, uses

110-89-4, Piperidine, uses 121-44-8, Triethylamine, uses

121-69-7, N,N-Dimethylaniline, uses 606-46-2, N,N-Diethyl-o-toluidine

(curing accelerators, for **cyanoacrylate** rapid-setting adhesives)

IT **9003-56-9**, Acrylonitrile-butadiene-**styrene** copolymer

(plates, **cyanoacrylate** rapid-setting adhesives for)

L44 ANSWER 18 OF 32 HCA COPYRIGHT 2005 ACS on STN

112:100287 Rapid-setting **cyanoacrylate** adhesive

**compositions.** Hiraiwa, Akihiko; Fujimoto, Yoshiaki; Kimura, Kaoru (Toa Gosei Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 01182385 A2 **19890720** Heisei, 5 pp.

(Japanese). CODEN: JKXXAF. APPLICATION: JP 1988-3199 19880112.

AB The title compns. with excellent impact strength and durability contain (A) 2-**cyanoacrylates**, (B) polycarboxylic acids contg. .gtoreq.3 CO<sub>2</sub>H, their esters or anhydrides, and (C) acrylonitrile-**styrene** copolymer (I). Thus, Aron Alpha 201 contg. 0.1% trans-aconitic acid (II) and 8% Sanrex SAN-A (I) showed set time 30 s, peel strength (Al plate) 0.9 kg/in, and impact strength (Fe/ABS resin) 34 kg/cm<sup>2</sup> after 20 thermal cycles from -30 to 100.degree., vs., 30, 0.4, and 8, resp., without II.

IT **25067-30-5**

(adhesives, contg. polycarboxylates and acrylonitrile-**styrene** copolymer, rapid-setting, with good impact strength)

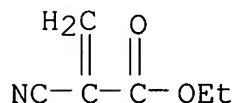
RN 25067-30-5 HCA

CN 2-Propenoic acid, 2-cyano-, ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7085-85-0

CMF C6 H7 N O2



IT **9003-54-7**, Acrylonitrile-**styrene** copolymer  
(**cyanoacrylate** adhesives contg. polycarboxylates and, rapid-setting, with good impact strength)

RN 9003-54-7 HCA

CN 2-Propenenitrile, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

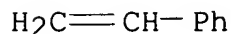
CMF C3 H3 N



CM 2

CRN 100-42-5

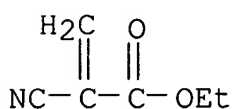
CMF C8 H8



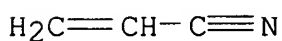
- IC ICM C09J003-14  
ICS C09J003-14
- CC 38-3 (Plastics Fabrication and Uses)
- ST **cyanoacrylate** adhesive impact strength; rapid setting  
**cyanoacrylate** adhesive; polycarboxylate blend  
**cyanoacrylate** adhesive; acrylonitrile **styrene**  
copolymer adhesive **cyanoacrylate**
- IT Anhydrides  
(**cyanoacrylate** adhesives contg., rapid-setting, with  
good impact strength)
- IT Carboxylic acids, uses and miscellaneous  
(poly-, **cyanoacrylate** adhesives contg., rapid-setting,  
with good impact strength)
- IT Carboxylic acids, esters  
(poly-, esters, **cyanoacrylate** adhesives contg.,  
rapid-setting, with good impact strength)
- IT **Adhesives**  
(rapid-setting, **cyanoacrylates**, contg. polycarboxylates  
and acrylonitrile-**styrene** copolymer, with good impact  
strength)
- IT **25067-30-5** 72870-33-8, Aron Alpha 201  
(adhesives, contg. polycarboxylates and acrylonitrile-  
**styrene** copolymer, rapid-setting, with good impact  
strength)
- IT **9003-54-7**, Acrylonitrile-**styrene** copolymer  
(**cyanoacrylate** adhesives contg. polycarboxylates and,  
rapid-setting, with good impact strength)
- IT 89-32-7 1732-96-3 4023-65-8 38945-27-6,  
Carboxymethyloxysuccinic acid 125484-93-7  
(**cyanoacrylate** adhesives contg., rapid-setting, with  
good impact strength)
- L44 ANSWER 19 OF 32 HCA COPYRIGHT 2005 ACS on STN
- 111:135602 Rapid-curing 2-**cyanoacrylate** adhesive  
**compositions**. Kihara, Kazuo; Beniya, Shigeki; Kitamura,  
Ryuichi; Hirakawa, Eisuke (Alpha Techno Co., Japan). Jpn. Kokai  
Tokkyo Koho JP 63284279 A2 **19881121** Showa, 8 pp.  
(Japanese). CODEN: JKXXAF. APPLICATION: JP 1987-119496 19870515.
- AB Title compns. with improved tensile shear strength, impact  
resistance, and peel strength comprise 2-**cyanoacrylates**  
and satd. copolyesters. Thus, a compn. contg. 100 parts Et 2-  
**cyanoacrylate** and 5 parts Vylon 200 showed set time 10-13 s  
and 15-20 s initially and after 5 days at 70.degree., resp., and  
steel plates bonded with the compn. showed tensile shear strength 72  
kg/cm<sup>2</sup>, peel strength 2.5 kg/25 mm, and good impact resistance, vs.  
10-13 s, 12-15 s, 70 kg/cm<sup>2</sup>, 0.5 kg/25 mm, and poor, resp., without  
Vylon 200.



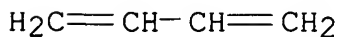
IT **25067-30-5**  
 (adhesives, contg. satd. polyesters, rapid-setting, with good  
 tensile shear strength and impact resistance)  
 RN 25067-30-5 HCA  
 CN 2-Propenoic acid, 2-cyano-, ethyl ester, homopolymer (9CI) (CA  
 INDEX NAME)  
 CM 1  
 CRN 7085-85-0  
 CMF C6 H7 N O2



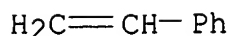
IT **9003-56-9, Acrylonitrile-butadiene-styrene**  
 copolymer  
 (**cyanoacrylate** adhesives for, rapid-setting, with good  
 tensile shear strength and impact resistance)  
 RN 9003-56-9 HCA  
 CN 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene  
 (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 107-13-1  
 CMF C3 H3 N



CM 2  
 CRN 106-99-0  
 CMF C4 H6



CM 3  
 CRN 100-42-5  
 CMF C8 H8



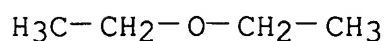
- IC ICM C09J003-14  
ICA C08F022-32  
CC 38-3 (Plastics Fabrication and Uses)  
ST **cyanoacrylate** adhesive satd polyester blend; tensile shear strength **cyanoacrylate** adhesive; impact strength **cyanoacrylate** adhesive; rapid setting **cyanoacrylate** adhesive  
IT Polyesters, uses and miscellaneous  
(**cyanoacrylate** adhesives contg., rapid-setting, with good tensile shear strength and impact resistance)  
IT **Adhesives**  
(fast-curing, **cyanoacrylates**, contg. satd. polyesters, with good tensile shear strength and impact resistance)  
IT **25067-30-5** 25154-80-7 26877-41-8 61435-87-8  
(adhesives, contg. satd. polyesters, rapid-setting, with good tensile shear strength and impact resistance)  
IT 29294-36-8, Vylon 300 37337-82-9, Vylon 200 95829-16-6, Vylon RV 103 99130-66-2, Kemit R 80 111309-19-4, Elitel UE 3200 117847-82-2, Kemit K 1294 122784-23-0, Kemit R 188  
(**cyanoacrylate** adhesives contg., with good tensile shear strength and impact resistance)  
IT 7429-90-5, Aluminum, uses and miscellaneous 9002-86-2, PVC **9003-56-9**, Acrylonitrile-butadiene-**styrene** copolymer 12597-69-2, Steel, uses and miscellaneous  
(**cyanoacrylate** adhesives for, rapid-setting, with good tensile shear strength and impact resistance)
- L44 ANSWER 20 OF 32 HCA COPYRIGHT 2005 ACS on STN  
110:218230 Air contaminants. (United States Occupational Safety and Health Administration, Washington, DC, 20210, USA). Federal Register, 54(12, Bk. 2), 2332-983 (English) 19 Jan 1989. CODEN: FEREAC. ISSN: 0097-6326.
- AB Under the Federal Occupational Safety and Health act, OSHA is amending existing air containment stds. and setting new permissible exposure limits for toxic substances commonly used in the workplace.
- IT **60-29-7**, Ethyl ether, biological studies **75-09-2**, Methylene chloride, biological studies **108-10-1**, Hexone **108-21-4**, Isopropyl acetate **108-83-8**, Diisobutyl ketone **108-87-2**, Methylcyclohexane **108-88-3**, biological studies **108-94-1**, Cyclohexanone, biological studies **109-60-4**, n-Propyl acetate **110-19-0**, Isobutyl acetate **110-54-3**, n-Hexane, biological studies **110-82-7**, Cyclohexane, biological studies **123-86-4**, n-Butyl-acetate **141-78-6**, Ethyl acetate, biological studies **142-82-5**, Heptane, biological studies

540-88-5, tert-Butyl acetate 563-80-4, Methyl  
isopropyl ketone

(air pollution by, occupational exposure to, stds. for, in USA)

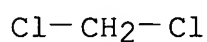
RN 60-29-7 HCA

CN Ethane, 1,1'-oxybis- (9CI) (CA INDEX NAME)



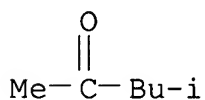
RN 75-09-2 HCA

CN Methane, dichloro- (8CI, 9CI) (CA INDEX NAME)



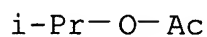
RN 108-10-1 HCA

CN 2-Pentanone, 4-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



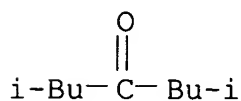
RN 108-21-4 HCA

CN Acetic acid, 1-methylethyl ester (9CI) (CA INDEX NAME)



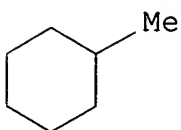
RN 108-83-8 HCA

CN 4-Heptanone, 2,6-dimethyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



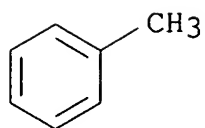
RN 108-87-2 HCA

CN Cyclohexane, methyl- (8CI, 9CI) (CA INDEX NAME)

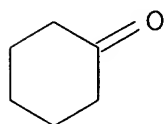


RN 108-88-3 HCA

CN Benzene, methyl- (9CI) (CA INDEX NAME)



RN 108-94-1 HCA  
CN Cyclohexanone (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 109-60-4 HCA  
CN Acetic acid, propyl ester (6CI, 8CI, 9CI) (CA INDEX NAME)

n-Pr-O-Ac

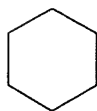
RN 110-19-0 HCA  
CN Acetic acid, 2-methylpropyl ester (9CI) (CA INDEX NAME)

i-Bu-O-Ac

RN 110-54-3 HCA  
CN Hexane (8CI, 9CI) (CA INDEX NAME)

Me-(CH<sub>2</sub>)<sub>4</sub>-Me

RN 110-82-7 HCA  
CN Cyclohexane (8CI, 9CI) (CA INDEX NAME)



RN 123-86-4 HCA  
CN Acetic acid, butyl ester (8CI, 9CI) (CA INDEX NAME)

n-Bu-O-Ac

RN 141-78-6 HCA  
 CN Acetic acid ethyl ester (8CI, 9CI) (CA INDEX NAME)

Et-O-Ac

RN 142-82-5 HCA  
 CN Heptane (8CI, 9CI) (CA INDEX NAME)

Me-(CH<sub>2</sub>)<sub>5</sub>-Me

RN 540-88-5 HCA  
 CN Acetic acid, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

t-Bu-O-Ac

RN 563-80-4 HCA  
 CN 2-Butanone, 3-methyl- (8CI, 9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{O} \\ || \\ \text{Me}-\text{C}-\text{Pr-i} \end{array}$$

CC 59-5 (Air Pollution and Industrial Hygiene)  
 Section cross-reference(s): 4  
 IT 50-00-0, Formaldehyde, biological studies 50-29-3, biological studies 50-32-8, Benzo[a]pyrene, biological studies 50-78-2 53-96-3 54-11-5, Nicotine 55-38-9, Fenthion 55-63-0, Nitroglycerin 56-23-5, biological studies 56-38-2, Parathion 56-81-5, 1,2,3-Propanetriol, biological studies 57-14-7, 1,1-Dimethylhydrazine 57-24-9, Strychnine 57-50-1, biological studies 57-57-8, 2-Oxetanone 58-89-9, Lindane 60-11-7, 4-Dimethylaminoazobenzene **60-29-7**, Ethyl ether, biological studies 60-34-4, Methyl hydrazine 60-57-1, Dieldrin 61-82-5, Amitrole 62-53-3, Aniline, biological studies 62-73-7, Dichlorvos 62-74-8, Sodium fluoroacetate 62-75-9, N-Nitrosodimethylamine 63-25-2 64-17-5, Ethyl alcohol, biological studies 64-18-6, Formic acid, biological studies 64-19-7, Acetic acid, biological studies 67-56-1, Methyl alcohol, biological studies 67-63-0, Isopropyl alcohol, biological studies 67-64-1, Acetone, biological studies 67-66-3, Chloroform, biological studies 67-72-1, Hexachloroethane 68-11-1, Thioglycolic acid, biological studies 68-12-2, Dimethylformamide, biological studies 71-23-8, n-Propyl alcohol, biological studies

71-36-3, n-Butyl alcohol, biological studies 71-43-2, Benzene, biological studies 71-55-6, Methyl chloroform 72-20-8, Endrin 72-43-5, Methoxychlor 74-83-9, Methyl bromide, biological studies 74-87-3, Methyl chloride, biological studies 74-88-4, biological studies 74-89-5, Methylamine, biological studies 74-90-8, Hydrogen cyanide, biological studies 74-93-1, Methyl mercaptan, biological studies 74-96-4, Ethyl bromide 74-97-5, Chlorobromomethane 74-98-6, Propane, biological studies 74-99-7, Methyl acetylene 75-00-3, Ethyl chloride 75-01-4, biological studies 75-04-7, Ethylamine, biological studies 75-05-8, Acetonitrile, biological studies 75-07-0, Acetaldehyde, biological studies 75-08-1, Ethyl mercaptan **75-09-2**, Methylene chloride, biological studies 75-12-7, Formamide, biological studies 75-15-0, Carbon disulfide, biological studies 75-21-8, Oxirane, biological studies 75-25-2, Bromoform 75-31-0, Isopropylamine, biological studies 75-34-3, 1,1-Dichloroethane 75-35-4, Vinylidene chloride, biological studies 75-43-4, Dichloromonofluoromethane 75-44-5, Phosgene 75-45-6, Chlorodifluoromethane 75-47-8, Iodoform 75-50-3, Trimethylamine, biological studies 75-52-5, Nitromethane, biological studies 75-55-8 75-56-9, biological studies 75-61-6, Difluorodibromomethane 75-63-8, Trifluorobromomethane 75-65-0, tert-Butyl alcohol, biological studies 75-69-4, Fluorotrichloromethane 75-71-8, Dichlorodifluoromethane 75-74-1, Tetramethyl lead 75-99-0, 2,2-Dichloropropionic acid 76-03-9, Trichloroacetic acid, biological studies 76-06-2, Chloropicrin 76-11-9, 1,1,1,2-Tetrachloro-2,2-difluoroethane 76-12-0, 1,1,2,2-Tetrachloro-1,2-difluoroethane 76-13-1, 1,1,2-Trichloro-1,2,2-trifluoroethane 76-15-3, Chloropentafluoroethane 76-22-2, Camphor 76-44-8 77-47-4, Hexachlorocyclopentadiene 77-73-6, Dicyclopentadiene 77-78-1, Dimethyl sulfate 78-00-2, Tetraethyl lead 78-30-8 78-34-2, Dioxathion 78-59-1, Isophorone 78-83-1, Isobutyl alcohol, biological studies 78-87-5, Propylene dichloride 78-92-2, sec-Butyl alcohol 78-93-3, 2-Butanone, biological studies 79-00-5, 1,1,2-Trichloroethane 79-01-6, biological studies 79-04-9, Chloroacetyl chloride 79-06-1, 2-Propenamide, biological studies 79-09-4, Propionic acid, biological studies 79-10-7, 2-Propenoic acid, biological studies 79-20-9, Methyl acetate 79-24-3, Nitroethane 79-27-6, Acetylene tetrabromide 79-34-5, 1,1,2,2,-Tetrachloroethane 79-41-4, biological studies 79-46-9, 2-Nitropropane 80-62-6 81-81-2, Warfarin 83-26-1, Pindone 83-79-4, Rotenone 84-66-2, Diethyl phthalate 84-74-2, Dibutyl phthalate 85-00-7 85-44-9, Phthalic anhydride 86-50-0, Azinphos-methyl 87-68-3, Hexachlorobutadiene 87-86-5, Pentachlorophenol 88-72-2, o-Nitrotoluene 88-89-1, Picric acid 89-72-5, o-sec-Butylphenol 90-04-0, o-Anisidine 91-20-3, Naphthalene, biological studies 91-59-8, .beta.-Naphthylamine

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(air pollution by, occupational exposure to, stds. for, in USA)

IT 110-12-3, Methyl isoamyl ketone **110-19-0**, Isobutyl acetate 110-43-0, Methyl-n-amyl ketone 110-49-6 **110-54-3**, n-Hexane, biological studies 110-62-3, n-Valeraldehyde 110-80-5, 2-Ethoxyethanol **110-82-7**, Cyclohexane, biological studies 110-83-8, Cyclohexene, biological studies 110-86-1, Pyridine, biological studies 110-91-8, Morpholine, biological studies 111-15-9, 2-Ethoxyethyl acetate 111-30-8, Pentanedial 111-40-0 111-42-2, Diethanolamine, biological studies 111-44-4 111-65-9, Octane, biological studies 111-76-2, 2-Butoxyethanol 111-84-2, Nonane 114-26-1, Propoxur 115-29-7, Endosulfan 115-77-5, Pentaerythritol, biological studies 115-86-6, Triphenyl phosphate 115-90-2, Fensulfathion 117-81-7 118-52-5, 1,3-Dichloro-5,5-dimethyl hydantoin 118-96-7, 2,4,6-Trinitrotoluene 120-80-9, Catechol, biological studies 120-82-1, 1,2,4-Trichlorobenzene 121-44-8, Triethylamine, biological studies 121-45-9, Trimethyl phosphite 121-69-7, biological studies 121-75-5, Malathion 121-82-4, Cyclonite 122-39-4, Diphenylamine, biological studies 122-60-1, Phenyl glycidyl ether 123-19-3, Dipropyl ketone 123-31-9, 1,4-Benzenediol, biological studies 123-42-2, Diacetone alcohol 123-51-3, Isoamyl alcohol 123-73-9 **123-86-4**, n-Butyl-acetate 123-91-1, 1,4-Dioxane, biological studies 123-92-2, Isoamyl acetate 124-38-9, Carbon dioxide, biological studies 124-40-3, Dimethylamine, biological studies 126-73-8, Tributyl phosphate, biological studies 126-98-7, Methylacrylonitrile 126-99-8, .beta.-Chloroprene 127-18-4, Perchloroethylene, biological studies 127-19-5 128-37-0, 2,6-Di-tert-butyl-p-cresol, biological studies 131-11-3, Dimethylphthalate 133-06-2, Captan 134-32-7, 1-Naphthalenamine 136-78-7, Sesone 137-05-3, Methyl 2-**cyanoacrylate** 137-26-8, Thiram 138-22-7, n-Butyl lactate 140-88-5 141-32-2 141-43-5, biological studies 141-66-2, Dicrotophos **141-78-6**, Ethyl acetate, biological studies 141-79-7, Mesityl oxide 142-64-3, Piperazine dihydrochloride **142-82-5**, Heptane, biological studies 144-62-7, Ethanedioic acid, biological studies 148-01-6 150-76-5, 4-Methoxyphenol 151-56-4, Aziridine, biological studies 156-62-7, Calcium cyanamide 218-01-9, Chrysene 287-92-3,



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302-01-2, Hydrazine, biological studies 309-00-2, Aldrin  
314-40-9, Bromacil 330-54-1, Diuron 333-41-5, Diazinon  
334-88-3, Diazomethane 353-50-4, Carbonyl fluoride 409-21-2,  
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463-51-4, Ketene 471-34-1, Carbonic acid calcium salt (1:1),  
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506-77-4, Cyanogen chloride 509-14-8, Tetranitromethane  
528-29-0, 1,2-Dinitrobenzene 532-27-4 534-52-1, Dinitro-o-cresol  
540-59-0, 1,2-Dichloroethylene **540-88-5**, tert-Butyl  
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558-13-4, Carbon tetrabromide 563-12-2, Ethion **563-80-4**,  
Methyl isopropyl ketone 583-60-8 584-84-9 591-78-6, 2-Hexanone  
593-60-2, Vinyl bromide 594-42-3, Perchloromethyl mercaptan  
594-72-9, 1,1-Dichloro-1-nitroethane 600-25-9,  
1-Chloro-1-nitropropane 603-34-9, Triphenyl amine 624-83-9,  
Methyl isocyanate 626-17-5, 1,3-Benzenedicarbonitrile 627-13-4,  
n-Propyl nitrate 628-63-7, n-Amyl acetate 628-96-6, Ethylene  
glycol dinitrate 630-08-0, Carbon monoxide, biological studies  
638-21-1, Phenylphosphine 681-84-5, Methyl silicate 684-16-2,  
Hexafluoroacetone 768-52-5, N-Isopropylaniline 944-22-9, Fonofos  
999-61-1, 2-Hydroxypropyl acrylate 1189-85-1, tert-Butyl chromate  
1300-73-8, Xylidine 1303-86-2, Boron oxide 1303-96-4, Borax  
decahydrate 1304-82-1, Bismuth telluride 1305-62-0, Calcium  
hydroxide, biological studies 1305-78-8, Calcium oxide, biological  
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Dichlorotetrafluoroethane 1320-67-8, Propylene glycol monomethyl  
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Trichloronaphthalene 1321-74-0, Divinyl benzene, biological  
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1335-87-1, Hexachloronaphthalene 1335-88-2, Tetrachloronaphthalene  
1344-28-1, .alpha.-Alumina, biological studies 1344-95-2, Calcium  
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Carbofuran 1912-24-9 1929-82-4, 2-Chloro-6-trichloromethyl  
pyridine 2039-87-4, o-**Chlorostyrene** 2074-87-5,  
Cyanogen 2104-64-5 2179-59-1, Allyl propyl disulfide  
2234-13-1, Octachloronaphthalene 2238-07-5, Diglycidyl ether  
2425-06-1, Captafol 2426-08-6 2551-62-4, Sulfur hexafluoride  
2698-41-1, o-Chlorobenzylidene malononitrile 2699-79-8, Sulfuryl

fluoride 2921-88-2, Chlorpyrifos 2971-90-6, Clopidol  
 3333-52-6, Tetramethyl succinonitrile 3383-96-8, Temephos  
 3394-04-5 3689-24-5, Sulfotep 4016-14-2, Isopropyl glycidyl  
 ether 4098-71-9, Isophorone diisocyanate 4170-30-3,  
 Crotonaldehyde 4685-14-7 5124-30-1 6423-43-4, Propylene glycol  
 dinitrate 6923-22-4, Monocrotophos 7429-90-5, Aluminum,  
 biological studies 7429-90-5D, Aluminum, compds. 7439-89-6,  
 Iron, biological studies 7439-89-6D, Iron, salts 7439-92-1,  
 Lead, biological studies 7439-96-5, Manganese, biological studies  
 7439-96-5D, Manganese, compds. 7439-97-6, Mercury, biological  
 studies 7439-97-6D, Mercury, compds. 7439-98-7, Molybdenum,  
 biological studies 7439-98-7D, Molybdenum, compds. 7440-02-0,  
 Nickel, biological studies 7440-02-0D, Nickel, compds.  
 7440-06-4, Platinum, biological studies 7440-06-4D, Platinum,  
 salts 7440-16-6, Rhodium, biological studies 7440-16-6D,  
 Rhodium, compds. 7440-21-3, Silicon, biological studies  
 7440-22-4, Silver, biological studies 7440-25-7, Tantalum,  
 biological studies 7440-28-0D, Thallium, compds. 7440-31-5, Tin,  
 biological studies 7440-31-5D, Tin, compds. 7440-33-7, Tungsten,  
 biological studies 7440-33-7D, Tungsten, compds. 7440-36-0,  
 Antimony, biological studies 7440-38-2D, Arsenic, inorg. and org.  
 compds. 7440-39-3D, Barium, compds. 7440-41-7, Beryllium,  
 biological studies 7440-41-7D, Beryllium, compds. 7440-43-9,  
 Cadmium, biological studies 7440-47-3, Chromium, biological  
 studies 7440-47-3D, Chromium, compds. 7440-48-4, Cobalt,  
 biological studies 7440-50-8, Copper, biological studies  
 7440-58-6, Hafnium, biological studies 7440-61-1, Uranium,  
 biological studies 7440-61-1D, Uranium, compds. 7440-62-2,  
 Vanadium, biological studies 7440-65-5, Yttrium, biological  
 studies 7440-67-7D, Zirconium, compds. 7440-74-6, Indium,  
 biological studies 7440-74-6D, Indium, compds. 7446-09-5, Sulfur  
 dioxide, biological studies 7553-56-2, Iodine, biological studies  
 7572-29-4, Dichloroacetylene 7580-67-8, Lithium hydride  
 7616-94-6, Perchloryl fluoride 7631-86-9, Silica, biological  
 studies 7631-90-5, Sodium bisulfite 7637-07-2, Boron  
 trifluoride, biological studies 7646-85-7, Zinc chloride,  
 biological studies 7647-01-0, Hydrogen chloride, biological  
 studies 7664-38-2, Phosphoric acid, biological studies  
 7664-39-3, Hydrogen fluoride, biological studies 7664-41-7,  
 Ammonia, biological studies 7664-93-9, Sulfuric acid, biological  
 studies

(air pollution by, occupational exposure to, stds. for, in USA)

L44 ANSWER 21 OF 32 HCA COPYRIGHT 2005 ACS on STN

108:222843 Rapid-setting **cianoacrylate** adhesive

**compositions.** Hiraiwa, Akihiko; Kimura, Kaoru (Toa Gosei  
 Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP  
 63003072 A2 **19880108** Showa, 5 (Japanese). CODEN: JKXXAF.

APPLICATION: JP 1986-145988 19860624.

- AB Adhesives providing good adhesion and durability comprise 2-**cyanoacrylates**, compds. contg. .gtoreq.3 CO<sub>2</sub>H groups (or their esters or anhydrides), and copolymers prepd. from monomers which form polymers sol. in 2-**cyanoacrylates** and monomers which form polymers insol. in 2-**cyanoacrylates**. Aron Alpha 201 contg. 0.1% aconitic acid and 3% Metablen C 202 (I) had set time 30 s, peel strength (JIS K 6854) 4.8 kg/in, impact strength (JIS K 6855) 13 kg-cm/cm<sup>2</sup>, and impact strength after 20 cycles between -30.degree. and +100.degree. of 23 kg/cm<sup>2</sup>, vs. 30, 2.1, 10, and 0, resp., without I.
- IT **9010-94-0**, Blendex 436 **25053-09-2**, Metablen C 202 (**cyanoacrylate** adhesives contg. polycarboxylic acids and)
- RN 9010-94-0 HCA
- CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 1,3-butadiene, ethenylbenzene and 2-propenenitrile (9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

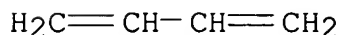
CMF C3 H3 N



CM 2

CRN 106-99-0

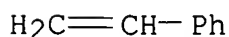
CMF C4 H6



CM 3

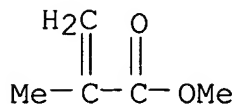
CRN 100-42-5

CMF C8 H8



CM 4

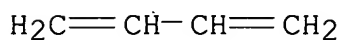
CRN 80-62-6  
CMF C5 H8 O2



RN 25053-09-2 HCA  
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with  
1,3-butadiene and ethenylbenzene (9CI) (CA INDEX NAME)

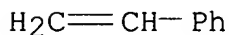
CM 1

CRN 106-99-0  
CMF C4 H6



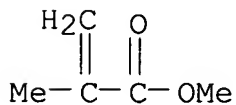
CM 2

CRN 100-42-5  
CMF C8 H8



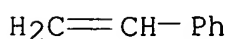
CM 3

CRN 80-62-6  
CMF C5 H8 O2



IC ICM C09J003-14  
ICA C08F222-32; C08L035-04  
CC 38-3 (Plastics Fabrication and Uses)  
ST **cyanoacrylate** adhesive additive polymer; carboxy additive  
**cyanoacrylate** adhesive; impact strength  
**cyanoacrylate** adhesive; peel strength **cyanoacrylate**  
adhesive; aconitic acid **cyanoacrylate** adhesive; heat  
resistance adhesive **cyanoacrylate**; cold resistance

- adhesive **cyanoacrylate**
- IT Impact strength  
(**cyanoacrylate** adhesive contg. polycarboxy compd. and polymer for)
- IT **Adhesives**  
(**cyanoacrylate**-polycarboxy compd.-polymer, peel- and impact-resistant)
- IT 9003-07-0D, Polypropylene, chlorinated **9010-94-0**, Blendex 436 24937-78-8, Soarlex DH **25053-09-2**, Metablen C 202 86091-30-7, Superchlone 306 114797-35-2 114797-59-0  
(**cyanoacrylate** adhesives contg. polycarboxylic acids and)
- IT 89-32-7 499-12-7 85797-92-8, Ethylene glycol ditrimellitate  
(**cyanoacrylate** adhesives contg. polymers and)
- L44 ANSWER 22 OF 32 HCA COPYRIGHT 2005 ACS on STN
- 108:77281 Opaque **cyanoacrylate** adhesives and coatings and opacifying plasticizers for their **compositions**.  
Blomquist, Robert M. (National Starch and Chemical Corp., USA).  
Eur. Pat. Appl. EP 239890 A2 **19871007**, 10 pp. DESIGNATED STATES: R: CH, DE, GB, LI. (English). CODEN: EPXXDW.  
APPLICATION: EP 1987-104131 19870320. PRIORITY: US 1986-843946 19860325; US 1986-933442 19861121.
- AB Adding a solvent (b.p. .gtoreq.93.degree.) selected from nonpolar or moderately polar solvent for the monomer to the **cyanoacrylate** adhesive or coating increases the opacity. A compn. contg. the **cyanoacrylate** 80, triethylene glycol di-2-ethylhexanoate (b.p. 344.degree.) 20, and Resiren Red TFB 0.3% was applied to Buna N and after 24 h produced a plainly visible bright red coating.
- IT **9003-53-6, Polystyrene 9003-56-9**,  
Abs(polymer)  
(**cyanoacrylate** adhesives or coatings on, opacifier solvent-contg.)
- RN 9003-53-6 HCA
- CN Benzene, ethenyl-, homopolymer (9CI) (CA INDEX NAME)
- CM 1
- CRN 100-42-5
- CMF C8 H8

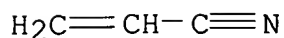


- RN 9003-56-9 HCA
- CN 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

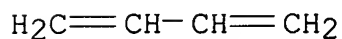
CMF C3 H3 N



CM 2

CRN 106-99-0

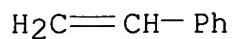
CMF C4 H6



CM 3

CRN 100-42-5

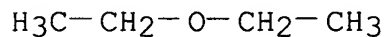
CMF C8 H8



IT **60-29-7**, Diethyl ether, uses and miscellaneous  
**108-88-3**, Toluene, uses and miscellaneous **123-86-4**  
, Butyl acetate **141-78-6**, Ethyl acetate, uses and  
miscellaneous  
(opacifying solvent, for **cyanoacrylate** adhesives and  
coatings)

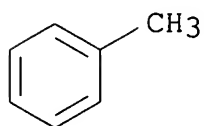
RN 60-29-7 HCA

CN Ethane, 1,1'-oxybis- (9CI) (CA INDEX NAME)



RN 108-88-3 HCA

CN Benzene, methyl- (9CI) (CA INDEX NAME)



RN 123-86-4 HCA  
 CN Acetic acid, butyl ester (8CI, 9CI) (CA INDEX NAME)

n-Bu-O-Ac

RN 141-78-6 HCA  
 CN Acetic acid ethyl ester (8CI, 9CI) (CA INDEX NAME)

Et-O-Ac

IC ICM C09J003-14  
 ICS C08F222-00; C09D003-80  
 CC 42-10 (Coatings, Inks, and Related Products)  
 Section cross-reference(s): 38  
 ST **cyanoacrylate** coating opaque; ethylhexanoate soly  
**cyanoacrylate**; adhesive **cyanoacrylate** opaque;  
 rubber coating opaque  
 IT **Adhesives**  
 Coating materials  
 (**cyanoacrylate**-based, opacifier solvent for)  
 IT Plasticizers  
 (nonpolar or moderately polar solvents, for **cyanoacrylate**  
 adhesives or coatings)  
 IT Opaque materials  
 (coatings, **cyanoacrylate** adhesives in, solvents for)  
 IT 137-05-3, **Methylcyanoacrylate** 7085-85-0,  
**Ethylcyanoacrylate**  
 (adhesives and coatings from, opacifiers for)  
 IT **9003-53-6, Polystyrene 9003-56-9**,  
 Abs(polymer)  
 (**cyanoacrylate** adhesives or coatings on, opacifier  
 solvent-contg.)  
 IT **60-29-7**, Diethyl ether, uses and miscellaneous 84-74-2,  
 Dibutyl phthalate 84-75-3, Dihexyl phthalate 94-28-0 103-24-2,  
 Dioctyl azelate **108-88-3**, Toluene, uses and miscellaneous  
 109-43-3, Dibutyl sebacate 110-83-8, Cyclohexene, uses and  
 miscellaneous 115-86-6, Triphenylphosphate 117-81-7, Dioctyl  
 phthalate 117-83-9 **123-86-4**, Butyl acetate 123-95-5,  
 Butyl stearate 126-73-8, Tributylphosphate, uses and miscellaneous  
**141-78-6**, Ethyl acetate, uses and miscellaneous 622-96-8,  
 p-Ethyltoluene 1241-94-7, 2-Ethylhexyldiphenylphosphate  
 1330-78-5, Tricresyl phosphate 1335-86-0, Methylcyclohexene  
 3842-58-8, HB-40 25321-22-6, Dichlorobenzene  
 (opacifying solvent, for **cyanoacrylate** adhesives and  
 coatings)

L44 ANSWER 23 OF 32 HCA COPYRIGHT 2005 ACS on STN

108:22835 Light-stabilized **thermoplastic** resin compositions.

Chiba, Takashi; Saito, Kiyotaka; Yagi, Norio (Denki Kagaku Kogyo K. K., Japan). Jpn. Kokai Tokkyo Koho JP 62151465 A2 **19870706** Showa, 7 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1985-292192 19851226.

AB Heat-resistant title compns. with no additive bleed-out, useful in automobile and elec. parts, etc., comprise 100 parts **thermoplastic** polymers with imide-contg. side chains 100, 0.01-5.0 parts salicylate esters, benzophenones, benzotriazoles, benzoates, **cyanoacrylates**, and/or Ni complex salts m. .gtoreq.50.degree., and 0.01-5.0 parts hindered phenols having mol. wt. .gtoreq.300. Thus, a blend of aniline-treated butadiene-maleic anhydride-**styrene** graft copolymer 70, ABS 30, Tinuvin P 1.5, and Irganox 1076 0.3 part had impact strength 61.2 kg-cm/cm initially and 40.5 kg-cm/cm after 1000 h in a weatherometer at 80.degree.; vs. 36.4 and 5.1 kg-cm/cm, resp., without Irganox 1076.

IT **106677-58-1**

(imide-contg. polymer blends, contg. nonmigrating light stabilizers and hindered phenols, heat-resistant)

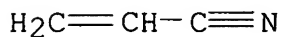
RN 106677-58-1 HCA

CN 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene, graft (9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

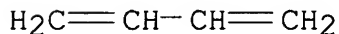
CMF C3 H3 N



CM 2

CRN 106-99-0

CMF C4 H6

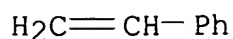


CM 3

CRN 100-42-5

CMF C8 H8





IT **106281-10-1D**, Butadiene-maleic anhydride-**styrene**  
graft copolymer, imidized with aniline **107240-54-0D**,  
Acrylonitrile-butadiene-maleic anhydride-**styrene** graft  
copolymer, imidized with aniline  
(moldings contg., with nonmigrating light stabilizers and  
hindered phenols, heat-resistant)

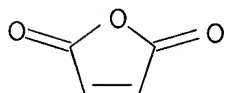
RN 106281-10-1 HCA

CN 2,5-Furandione, polymer with 1,3-butadiene and ethenylbenzene, graft  
(9CI) (CA INDEX NAME)

CM 1

CRN 108-31-6

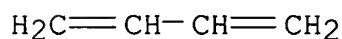
CMF C4 H2 O3



CM 2

CRN 106-99-0

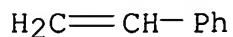
CMF C4 H6



CM 3

CRN 100-42-5

CMF C8 H8

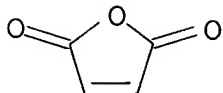


RN 107240-54-0 HCA

CN 2-Propenenitrile, polymer with 1,3-butadiene, ethenylbenzene and  
2,5-furandione, graft (9CI) (CA INDEX NAME)

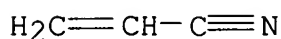
CM 1

CRN 108-31-6  
CMF C4 H2 O3



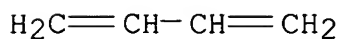
CM 2

CRN 107-13-1  
CMF C3 H3 N



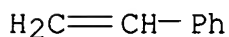
CM 3

CRN 106-99-0  
CMF C4 H6



CM 4

CRN 100-42-5  
CMF C8 H8



IC ICM C08L101-00  
ICS C08K003-10; C08K005-10; C08K005-13; C08K005-34  
CC 37-6 (Plastics Manufacture and Processing)  
ST light stabilizer imidized **thermoplastic** polymer; maleic anhydride copolymer imide stabilizer; weather resistant imide polymer compn; benzotriazole light stabilizer imidized **thermoplastic**; hindered phenol stabilizer imidized **thermoplastic**; heat resistant **thermoplastic** light stabilizer; bleeding resistant stabilized imide polymer  
IT Phenols, uses and miscellaneous  
(antioxidants, with nonbleeding light stabilizers, for imide-contg. **thermoplastics**)  
IT Heat-resistant materials

- (imide-contg. **thermoplastics** contg. nonmigrating light stabilizers and hindered phenols)
- IT Antioxidants  
(imide-contg. **thermoplastics** contg., with nonmigrating light stabilizers, heat-resistant)
- IT Ketones, uses and miscellaneous  
(aryl, light stabilizers, nonmigrating, for imidized **thermoplastics** contg. hindered phenols)
- IT Light stabilizers  
(nonmigrating, imide-contg. **thermoplastics** contg., with hindered phenols, heat-resistant)
- IT Amines, uses and miscellaneous  
(tri-, aryl, light stabilizers, nonmigrating, for imidized **thermoplastics** contg. hindered phenols)
- IT 85-60-9, Sumilizer BBM 976-56-7, Irganox 1222 1709-70-2, 1,3,5-Trimethyl-2,4,6-tris(3,5-di-tert-butyl-4-hydroxybenzyl)benzene 2082-79-3, Irganox 1076 6683-19-8, Irganox 1010 41484-35-9, Irganox 1035 61167-58-6, Sumilizer GM  
(antioxidants, with nonbleeding light stabilizers, for imide-contg. **thermoplastics**)
- IT 24936-68-3, Panlite K-1300, uses and miscellaneous 90597-84-5, Denka Styrol HIU-2 **106677-58-1**  
(imide-contg. polymer blends, contg. nonmigrating light stabilizers and hindered phenols, heat-resistant)
- IT 131-54-4, Uvinul D-49 131-56-6, 2,4-Dihydroxybenzophenone 136-36-7, Resorcinol monobenzoate 2440-22-4, Tinuvin P 2553-08-4, Seesorb 203 3147-77-1 3846-71-7, Tinuvin 320 5232-99-5, Uvinul N-35 14516-71-3, Cyasorb UV 1084 52829-07-9, Sanol LS 770 64022-61-3, Mark LA 57 66467-44-5, Seesorb 612NH  
(light stabilizers, nonmigrating, for imidized **thermoplastics** contg. hindered phenols)
- IT 84741-24-2 **106281-10-1D**, Butadiene-maleic anhydride-**styrene** graft copolymer, imidized with aniline **107240-54-0D**, Acrylonitrile-butadiene-maleic anhydride-**styrene** graft copolymer, imidized with aniline  
(moldings contg., with nonmigrating light stabilizers and hindered phenols, heat-resistant)
- L44 ANSWER 24 OF 32 HCA COPYRIGHT 2005 ACS on STN
- 104:111160 **Thermoplastic** polyurethane elastomers and their use. Goyert, Wilhelm; Winkler, Juergen; Wagner, Hans; Hoppe, Hans Georg (Bayer A.-G. , Fed. Rep. Ger.). Ger. Offen. DE 3405531 A1 **19850829**, 32 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1984-3405531 19840216.
- AB **Thermoplastic** polyurethane elastomers are prepd. to have stiffness, elasticity, low-temp. flexibility, homogeneous color, little yellowing, hydrolytic stability, no hard-segment segregation, excellent low-temp. impact resistance and tear resistance, high

modulus, low d. (1.10-1.17 g/cm<sup>3</sup>), and high shore D hardness (55-80). The components are 4,4'-diisocyanatodiphenylmethane (or a mixt. with its 2,4'-isomer), polytetramethylene glycol (mol. wt. 800-3000), a mixt. of diols as chain extender (e.g. 1,4-butanediol and 1,6-hexanediol) and a grafted rubber, with antioxidants, UV absorbers, and light shielding agents. The prepn. occurs in a one-shot reaction in an extruder. For example, polytetramethylene glycol (mol. wt. 1000) 15.27, polytetramethylene glycol (mol. wt. 2000) 15.27, 2,6-di-tert-butyl-4-methylphenol 0.12, pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] 0.21, **cyanoacrylate** UV absorber 0.15, 1,4-butanediol 12.22, 1,6-hexanediol 1.37, 4,4'-diisocyanatodiphenylmethane (2.5% 2,4'-isomer content), stearamide 0.15, and grafted rubber (50% butadiene, 36% styrol, and 14% acrylonitrile) 10% were processed in an extruder (NCO-OH 1.06:1). The 100% modulus, 300% modulus, and tensile strength (DIN 53 504) were 31.6, 51.2, and 53.3 MPa, resp. The breaking elongation was 310%, the Shore A and D hardness were 98 and 69, resp. The elasticity was 51%, abrasion loss (DIN 53 516) 19 mm<sup>3</sup>, crack propagation resistance (DIN 53 515) 170 GN/m, flexural strength at 23 and -20.degree. (DIN 53 452) was 34.9 and 69.7 MPa, tensile impact resistance (-10.degree.) was 158%, d. 1.11 g/cm<sup>3</sup>, and the shrinkage 0.5%.

IT **9003-56-9**

(graft, urethane rubber manufd. in presence of, flexible at low temp.)

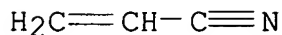
RN 9003-56-9 HCA

CN 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

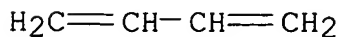
CMF C3 H3 N



CM 2

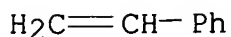
CRN 106-99-0

CMF C4 H6



CM 3

CRN 100-42-5  
CMF C8 H8



- IC ICM C08G018-65  
ICS C08G018-32; C08G018-48; C08G018-76; C08F279-04; C08L075-06;  
C08L051-04
- CC 39-4 (Synthetic Elastomers and Natural Rubber)
- ST **thermoplastic** elastomer polyurethane; diisocyanate graft rubber
- IT Rubber, urethane, preparation  
(manuf. of **thermoplastic**, by polymn. of diols with MDI in presence of ABS resin)
- IT **9003-56-9**  
(graft, urethane rubber manufd. in presence of, flexible at low temp.)
- IT 81507-20-2P 100829-72-9P  
(rubber, **thermoplastic**, manuf. of, in presence of ABS resin)
- L44 ANSWER 25 OF 32 HCA COPYRIGHT 2005 ACS on STN
- 103:161325 **Cyanoacrylate** adhesive **composition** having sustained toughness. Millet, George; Harrell, Edward; Wright, Charles (Minnesota Mining and Manufacturing Co., USA). Eur. Pat. Appl. EP 144178 A1 **19850612**, 50 pp. DESIGNATED STATES: R: DE, FR, GB, IT, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1984-307883 19841114. PRIORITY: US 1983-551571 19831114.
- AB One- or two-package adhesive compns. with improved toughness and toughness retention after heat aging of a cured bond comprise (a) a **cyanoacrylate** monomer, (b) a **cyanoacrylate**-compatible toughener which has a rubbery core surrounded by a **thermoplastic** shell and is free of **cyanoacrylate** polymn.-causing impurities, and (c) a **cyanoacrylate**- and toughener-compatible sustainer (a compd. to retain toughness after heat aging) which is generally an org. compd. contg. .gtoreq.1 (un)substituted aryl groups. Thus, CA-3 (Et **cyanoacrylate**) (I) [7085-85-0] 100, Blendex BTAIIIF (butadiene-Me methacrylate-**styrene** emulsion terpolymer) [25053-09-2] toughener 30, and diphenylmethane [101-81-5] toughness sustainer 10 parts were stirred to a smooth dispersion. Steel coupons bonded with adhesive for 16 h at 23.degree. had adhesive bonds with T-peel strength 8.2 kg/cm initially and 8.2 kg/cm after heat aging at 71.degree. for 4 wks with smooth peel failure in both cases, compared with 2.5 and 1.1, resp., (with zip-stick or zip-smooth peel failure) for a bond when I was used without the toughener and

sustainer.

IT **9003-56-9**

(toughener, core-shell, for **cyanoacrylate** adhesives)

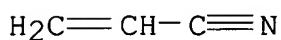
RN 9003-56-9 HCA

CN 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene  
(9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

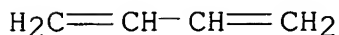
CMF C3 H3 N



CM 2

CRN 106-99-0

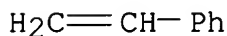
CMF C4 H6



CM 3

CRN 100-42-5

CMF C8 H8



IT **9010-94-0 25053-09-2**

(tougheners, core-shell, for **cyanoacrylate** adhesives)

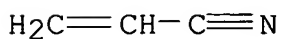
RN 9010-94-0 HCA

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with  
1,3-butadiene, ethenylbenzene and 2-propenenitrile (9CI) (CA INDEX  
NAME)

CM 1

CRN 107-13-1

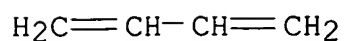
CMF C3 H3 N



CM 2

CRN 106-99-0

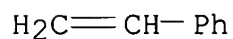
CMF C4 H6



CM 3

CRN 100-42-5

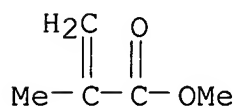
CMF C8 H8



CM 4

CRN 80-62-6

CMF C5 H8 O2



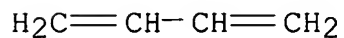
RN 25053-09-2 HCA

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with  
1,3-butadiene and ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 106-99-0

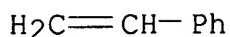
CMF C4 H6



CM 2

CRN 100-42-5

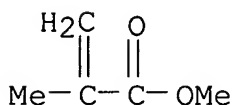
CMF C8 H8



CM 3

CRN 80-62-6

CMF C5 H8 O2



IC ICM C09J003-14

ICS C08F279-00

CC 37-6 (Plastics Manufacture and Processing)

ST **cyanoacrylate** adhesive; toughener **cyanoacrylate** adhesive; butadiene **styrene** methacrylate terpolymer toughener; phenylmethane toughness sustainer **cyanoacrylate** adhesive; aging resistance **cyanoacrylate** adhesive

IT **Adhesives**

(**cyanoacrylate**, contg. core-shell toughener and toughness sustainer)

IT Polyphenyls

(hydrogenated, toughness sustainer, for **cyanoacrylate** adhesives)

IT 7440-50-8, uses and miscellaneous 12597-68-1, uses and miscellaneous 12597-69-2, uses and miscellaneous 12597-71-6, uses and miscellaneous (adhesives for, **cyanoacrylate** compns. as)

IT 6606-65-1

(adhesives, contg. Et **cyanoacrylate**, core-shell toughener and toughness sustainer)

IT **9003-56-9**

(toughener, core-shell, for **cyanoacrylate** adhesives)

IT **9010-94-0 25053-09-2**

(tougheners, core-shell, for **cyanoacrylate** adhesives)

IT 85-68-7 98-82-8

(toughness sustainer, for **cyanoacrylate** adhesives)

IT 98-95-3, properties

(toughness sustainer, for **cyanoacrylate** adhesives)

IT 86-73-7 90-12-0 92-52-4, properties 92-66-0 95-50-1

141-28-6 151-10-0 981-40-8 1330-78-5 1742-14-9 26140-60-3

62587-63-7 98726-73-9

(toughness sustainers, for **cyanoacrylate** adhesives)

IT 98-86-2, properties 100-47-0, properties 101-55-3 101-81-5



101-84-8 104-66-5 106-39-8 108-86-1, properties 108-90-7,  
properties 119-61-9, properties 120-82-1  
(toughness sustainers, for **cyanoacrylate** adhesives)

L44 ANSWER 26 OF 32 HCA COPYRIGHT 2005 ACS on STN

100:52753 **Cyanoacrylate** adhesive **compositions**. (Toa  
Gosei Chemical Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho  
JP 58103568 A2 **19830620** Showa, 6 pp. (Japanese). CODEN:  
JKXXAF. APPLICATION: JP 1981-201001 19811215.

AB A rapid-setting 2-**cyanoacrylate**-type adhesive is  
compounded with 5-50% copolymer contg. 1-50 mol% unsatd. carboxylic  
anhydride residues to give a product with improved peel strength  
while maintaining shear strength. Thus, Et 2-**cyanoacrylate**  
[7085-85-0] contg. 500 ppm hydroquinone and 30 ppm SO<sub>2</sub> was mixed  
with 15% 60:3:7:30 Et acrylate-itaconic acid-itaconic anhydride-Me  
methacrylate copolymer (I) [88450-14-0] for 4 h at room temp.  
Metal test plates were bonded together using the adhesive at  
25.degree. and 60% relative humidity for 24 h to give a product with  
shear strength 230 kg/cm<sup>2</sup> (Fe plates) and peel strength 3.6 kg/25 mm  
(Al plates), compared with 200 kg/cm<sup>2</sup> and 0.2 kg/25 mm, resp., for  
the **cyanoacrylate** without I.

IT **62478-53-9 88450-12-8**  
(**cyanoacrylate** adhesives contg., for improved peel  
strength)

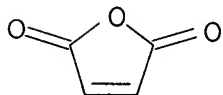
RN 62478-53-9 HCA

CN 2-Propenoic acid, polymer with ethenylbenzene, 2-ethylhexyl  
2-propenoate and 2,5-furandione (9CI) (CA INDEX NAME)

CM 1

CRN 108-31-6

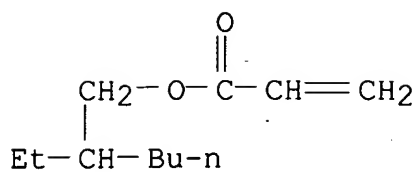
CMF C4 H2 O3



CM 2

CRN 103-11-7

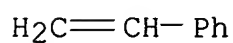
CMF C11 H20 O2



CM 3

CRN 100-42-5

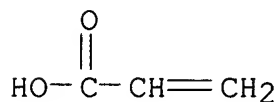
CMF C8 H8



CM 4

CRN 79-10-7

CMF C3 H4 O2



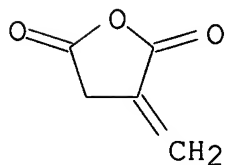
RN 88450-12-8 HCA

CN 2-Propenoic acid, polymer with butyl 2-propenoate,  
dihydro-3-methylene-2,5-furandione and ethenylbenzene (9CI) (CA  
INDEX NAME)

CM 1

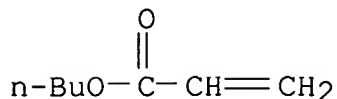
CRN 2170-03-8

CMF C5 H4 O3



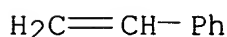
CM 2

CRN 141-32-2  
CMF C7 H12 O2



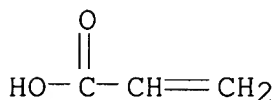
CM 3

CRN 100-42-5  
CMF C8 H8



CM 4

CRN 79-10-7  
CMF C3 H4 O2



IC C09J003-14  
CC 38-3 (Plastics Fabrication and Uses)  
ST **cyanoacrylate** adhesive itaconic anhydride copolymer  
IT **Adhesives**  
(rapid-setting, **cyanoacrylates**, contg. unsatd.  
carboxylic anhydride copolymers, with improved peel strength)  
IT **62478-53-9** 79934-48-8 88450-08-2 88450-09-3  
88450-10-6 88450-11-7 **88450-12-8** 88450-13-9  
88450-14-0  
(**cyanoacrylate** adhesives contg., for improved peel  
strength)

L44 ANSWER 27 OF 32 HCA COPYRIGHT 2005 ACS on STN  
95:99011 Quick-setting adhesive **composition**. Teramoto,  
Toshio; Ijuin, Noriaki; Kotani, Teizo (Japan Synthetic Rubber Co.,  
Ltd., Japan). Eur. Pat. Appl. EP 26665 **19810408**, 29 pp.  
(English). CODEN: EPXXDW. APPLICATION: EP 1980-303430 19800929.  
AB Quick-setting adhesives comprise a **cyanoacrylate** and a  
1,1-disubstituted diene, the adhesive having improved impact, peel,  
heat, and moisture resistance when compared with

**cyanoacrylate** alone. Thus, 1-cyano-1-methoxycarbonyl-1,3-butadiene-Et 2-**cyanoacrylate** copolymer [78260-41-0], after 24 h setting time between 2 adherends, had peel strength 2.05 kg/cm, impact strength .gtoreq.150 kg-cm/in.2, and heat resistance 103 kg/cm2 compared with 0.14 kg/cm, 42 kg-cm/in.2, and 10 kg/cm2, resp., for **cyanoacrylate** alone.

IT 9003-53-6 9003-56-9

(adhesives for, **cyanoacrylate**-diene compns. as, quick-setting)

RN 9003-53-6 HCA

CN Benzene, ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5

CMF C8 H8

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

RN 9003-56-9 HCA

CN 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

CMF C3 H3 N

$\text{H}_2\text{C}=\text{CH}-\text{C}\equiv\text{N}$

CM 2

CRN 106-99-0

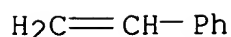
CMF C4 H6

$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2$

CM 3

CRN 100-42-5

CMF C8 H8



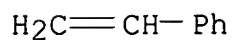
- IC C09J003-14; C08F222-32; C08F236-14; C08F236-14  
CC 37-3 (Plastics Fabrication and Uses)  
ST **cyanoacrylate** butadiene adhesive  
IT Glass, oxide  
Phenolic resins, uses and miscellaneous  
Rubber, natural, uses and miscellaneous  
Rubber, nitrile, uses and miscellaneous  
(adhesives for, **cyanoacrylate** diene compns. as,  
quick-setting)
- IT **Adhesives**  
(**cyanoacrylate**-diene, quick-setting)
- IT 7429-90-5, uses and miscellaneous 7440-50-8, uses and  
miscellaneous 9002-86-2 **9003-53-6 9003-56-9**  
9011-14-7 12597-68-1, uses and miscellaneous 12597-69-2, uses  
and miscellaneous 12597-71-6, uses and miscellaneous  
(adhesives for, **cyanoacrylate**-diene compns. as,  
quick-setting)
- IT 57-57-8 64-17-5, uses and miscellaneous 67-56-1, uses and  
miscellaneous 96-48-0 17455-13-9 33100-27-5  
(**cyanoacrylate**-diene adhesives contg., quick-setting)
- IT 9003-18-3  
(rubber, nitrile; adhesives for, **cyanoacrylate** diene  
compns. as, quick-setting)
- L44 ANSWER 28 OF 32 HCA COPYRIGHT 2005 ACS on STN  
94:56924 Anisotropically conductive adhesive material and  
short-circuiting material using the same. (Kokoku Rubber Industry  
Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 55104007  
**19800809** Showa, 4 pp. (Japanese). CODEN: JKXXAF.  
APPLICATION: JP 1979-9632 19790201.
- AB An anisotropically conductive material is obtained by homogeneously  
dispersing conductive particles (10-500 .mu.), such as metal, metal  
oxide, or C particles, in an adhesive plastic material obtained by  
mixing a base material (a **thermoplastic** elastomer, natural  
rubber, and/or synthetic rubber) with a tackifier, such as rosin,  
ester gum, or petroleum. A **cyanoacrylate**-type adhesive  
layer may also be formed on the plastic material to confer adhesive  
properties. The conductive material is useful maintaining elec.  
continuity between contacts on printed-circuit boards.
- IT **57271-36-0**  
(anisotropic elec. conductors contg. tetrablock, for printed  
circuits)
- RN 57271-36-0 HCA  
CN Benzene, ethenyl-, polymer with butene and ethene (9CI) (CA INDEX

NAME)

CM 1

CRN 100-42-5

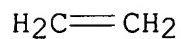
CMF C8 H8



CM 2

CRN 74-85-1

CMF C2 H4



CM 3

CRN 25167-67-3

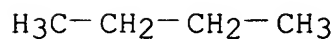
CMF C4 H8

CCI IDS

CM 4

CRN 106-97-8

CMF C4 H10

IT **9003-53-6 9003-55-8**

(anisotropic elec. conductors contg., for printed circuits)

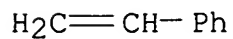
RN 9003-53-6 HCA

CN Benzene, ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5

CMF C8 H8



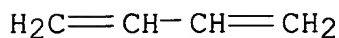
RN 9003-55-8 HCA

CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

CM 1

CRN 106-99-0

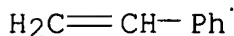
CMF C4 H6



CM 2

CRN 100-42-5

CMF C8 H8



IC H01B001-20; B32B007-10; H01H001-58

CC 76-2 (Electric Phenomena)

ST anisotropic conductor printed circuit board; carbon anisotropic conductor circuit board; metal anisotropic conductor circuit board; oxide anisotropic conductor circuit board; **thermoplastic** elastomer anisotropic conductor; rubber natural synthetic anisotropic conductor; **cyanoacrylate** adhesive anisotropic conductor; rosin adhesive anisotropic conductor; gum adhesive anisotropic conductor; petroleum adhesive anisotropic conductor

IT **57271-36-0**

(anisotropic elec. conductors contg. tetrablock, for printed circuits)

IT 108-78-1D, polymers 9002-85-1 9002-86-2 9002-88-4 9003-07-0  
9003-20-7 9003-27-4 **9003-53-6 9003-55-8**  
9004-57-3 24937-78-8

(anisotropic elec. conductors contg., for printed circuits)

L44 ANSWER 29 OF 32 HCA COPYRIGHT 2005 ACS on STN

88:122212 Filled **cyanoacrylate** adhesive **compositions**

. Gleave, Edward Roger (Loctite (Ireland) Ltd., Ire.). Ger. Offen. DE 2731937 **19780119**, 15 pp. (German). CODEN: GWXXBX.  
APPLICATION: DE 1977-2731937 19770714.

AB An alkyl **cyanoacrylate** was mixed with ABS polymer [ **9003-56-9**], butadiene-methyl methacrylate-**styrene** copolymer [**25053-09-2**], acrylonitrile-vinylidene chloride copolymer [9010-76-8], or a similar copolymer to prep. an adhesive which had a long shelf life and hardened to give adhesive layers with high peel strength. Thus, 100 parts Me 2-**cyanoacrylate** was mixed with 25 parts ABS polymer (Blendex 211) to prep. an

adhesive which gave bonds with peel strength 2.00 kg/cm, compared with 0.11 kg/cm without the ABS polymer.

IT **25067-29-2 25067-30-5**

(adhesives, contg. **thermoplastic** fillers for improved shelf life and peel strength)

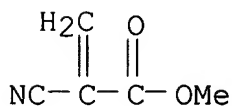
RN 25067-29-2 HCA

CN 2-Propenoic acid, 2-cyano-, methyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 137-05-3

CMF C5 H5 N O2



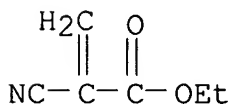
RN 25067-30-5 HCA

CN 2-Propenoic acid, 2-cyano-, ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 7085-85-0

CMF C6 H7 N O2



IT **9003-56-9 9010-94-0 25053-09-2**

(**cyanoacrylate** adhesives contg., for improved shelf life and peel strength)

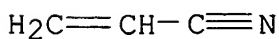
RN 9003-56-9 HCA

CN 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1

CMF C3 H3 N

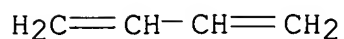




CM 2

CRN 106-99-0

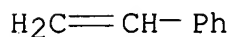
CMF C4 H6



CM 3

CRN 100-42-5

CMF C8 H8



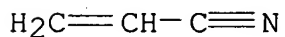
RN 9010-94-0 HCA

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with  
1,3-butadiene, ethenylbenzene and 2-propenenitrile (9CI) (CA INDEX  
NAME)

CM 1

CRN 107-13-1

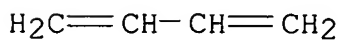
CMF C3 H3 N



CM 2

CRN 106-99-0

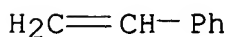
CMF C4 H6



CM 3

CRN 100-42-5

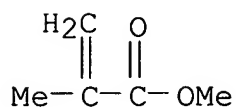
CMF C8 H8



CM 4

CRN 80-62-6

CMF C5 H8 O2



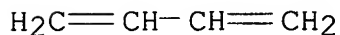
RN 25053-09-2 HCA

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with  
1,3-butadiene and ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 106-99-0

CMF C4 H6



CM 2

CRN 100-42-5

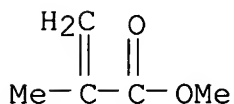
CMF C8 H8



CM 3

CRN 80-62-6

CMF C5 H8 O2



IC C09J003-14

CC 36-6 (Plastics Manufacture and Processing)

ST **cyanoacrylate** adhesive peel strength; acrylonitrile  
copolymer **cyanoacrylate** adhesive; **styrene**

copolymer **cyanoacrylate** adhesive; butadiene copolymer  
**cyanoacrylate** adhesive; **acrylate cyano**  
adhesive additive; ABS **cyanoacrylate** adhesive

IT **Adhesives**

(**cyanoacrylates**, contg. **thermoplastic**  
copolymers for improved shelf life and peel strength)

IT **25067-29-2 25067-30-5**

(adhesives, contg. **thermoplastic** fillers for improved  
shelf life and peel strength)

IT **9003-56-9 9010-76-8 9010-94-0 25053-09-2**

(**cyanoacrylate** adhesives contg., for improved shelf  
life and peel strength)

IT 79-41-4D, alkyl esters, polymers with butadiene and **styrene**  
100-42-5D, polymers with butadiene and methacrylates 106-99-0D,  
polymers with methacrylates and **styrene**  
(graft, **cyanoacrylate** adhesives contg., for improved  
shelf life and peel strength)

L44 ANSWER 30 OF 32 HCA COPYRIGHT 2005 ACS on STN

80:48885 Adhesive **composition**. Kato, Keijiro; Sasaki,  
Tsutomu; Narusawa, Hiroki (Denki Kagaku Kogyo K. K.). Jpn. Tokkyo  
Koho JP 47051807 B4 **19721226** Showa, 3 pp. (Japanese).  
CODEN: JAXXAD. APPLICATION: JP 1969-60830 19690801.

AB An adhesive compn. for bonding steel plates having improved pulling  
strength was prepd. from Et .alpha.-**cyanoacrylate**  
[7085-85-0] contg. 8% **styrene** [100-42-5]-grafted butadiene  
rubber.

IC C09J

CC 37-3 (Plastics Fabrication and Uses)

ST **cyanoacrylate** adhesive; butadiene rubber adhesive; steel

**cyanoacrylate** adhesive; acrylate adhesive

IT **Adhesives**

(**cyanoacrylates**, contg. butadiene rubber, for steel)

## IT 12597-69-2, uses and miscellaneous

(adhesives for, **cyanoacrylates** contg. butadiene rubber  
as)

L44 ANSWER 31 OF 32 HCA COPYRIGHT 2005 ACS on STN

72:56432 Microcapsules containing oily liquid. Matsukawa, Hiroharu  
(Fuji Photo Film Co., Ltd.). Ger. Offen. DE 1928552  
**19691218**, 20 pp. (German). CODEN: GWXXBX. APPLICATION: DE  
1969-1928552 19690604.

AB The title capsules are prepd. by dissolving a hydrophobic polymer in  
a low-boiling polymer solvent, mixing the soln. with a high-boiling  
water-insol. polymer nonsolvent, which is compatible with the  
low-boiling solvent, emulsifying the mixt. in an aq. medium at a  
temp. below the b.p. of the low boiling solvent, and heating the  
emulsion at least to the b.p. of the low-boiling solvent. Thus, 1.5

g poly(Me methacrylate) was dissolved in 15 g CH<sub>2</sub>Cl<sub>2</sub> and mixed with 30 g soln. of crystal violet lactone in 3:1 trichlorobiphenyl-kerosine. The mixt. (30 g) was gradually emulsified with 5 g gum arabic in 20 g water at 30.degree. to form an emulsion with particle size <10 .mu., gradually mixed with 150 g water at 35.degree., heated to 70.degree. over 30 min, heated 20 min at 70.degree., coated on paper, and dried 1 hr at 75.degree.. A clear marking was obtained when the coated side of the dried paper was placed on a clay-coated paper and pressed. The capsules can be obtained in dry form by spray drying. If the temp. of the system is allowed to increase during the emulsifying step, irregularly shaped, nonuniform microcapsules are obtained. A polyisocyanate, such as 4,4',4''-triphenylmethane triisocyanate, or a **cyanoacrylate** polymer was also added in some cases to reinforce the capsule wall. A no. of other hydrophobic polymers, including phenolic resins, silicone resins, polyolefins, polycarbonates, polyimides, polyurethanes, and poly(vinyl chloride), were also claimed for use in the process. This process gives capsule walls whose thickness and permeability can easily be regulated by the type of polymer used, and does not give the microcapsules in a form of agglomerates.

IT **9003-53-6**, uses and miscellaneous  
     (encapsulation by, mixed solvents for)  
 RN 9003-53-6 HCA  
 CN Benzene, ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5  
 CMF C8 H8

H<sub>2</sub>C=CH-Ph

IT **75-09-2**  
     (solvents, for encapsulation by hydrophobic polymers)  
 RN 75-09-2 HCA  
 CN Methane, dichloro- (8CI, 9CI) (CA INDEX NAME)

Cl-CH<sub>2</sub>-Cl

IC B01G  
 CC 37 (Plastics Fabrication and Uses)  
 IT 9003-22-9, uses and miscellaneous **9003-53-6**, uses and  
     miscellaneous 9004-35-7, uses and miscellaneous 9011-14-7,  
     Methacrylic acid methyl ester, polymers, uses and miscellaneous  
     (encapsulation by, mixed solvents for)  
 IT 67-64-1, uses and miscellaneous **75-09-2** 78-93-3, uses

and miscellaneous 109-99-9, uses and miscellaneous 117-81-7  
25323-68-6 27554-26-3  
(solvents, for encapsulation by hydrophobic polymers)

L44 ANSWER 32 OF 32 HCA COPYRIGHT 2005 ACS on STN

60:61674 Original Reference No. 60:10887h,10888a Adhesive  
**compositions**. Wicker, T. H., Jr.; Shearer, N. H., Jr.  
(Eastman Kodak Co.). BE 620458 **19621114**, 12 pp.  
(Unavailable). PRIORITY: US; 19610720.

AB Mixts. of a vinylaromatic compd. and an .alpha.-cyanoacrylic acid  
ester are prepd. and can be used as adhesives to join glass, metals,  
plastics, rubber, wood, paper, and textiles. Thus, 1.04 g.  
**styrene** is added to 1.11 g. Me .alpha.-**cyanoacrylate**  
(I). A viscous mixt. is obtained in 15 min., and the mixt. gives a  
solid polymer after 30 min. A mixt. of 1.04 g. **styrene**  
and 1.11 g. I is kept for 2 min. and 1 drop of the mixt. is applied  
to 2 pieces of steel. An unbreakable bond is obtained after 2 min.  
and the mixt. is kept for 24 hrs. in the cold to give a rupture  
resistance of 135 kg./sq. cm.

CC 48 (Plastics Technology)

IT Metals

(adhesives for, from .alpha.-cyanoacrylic acid esters and  
**styrene** or derivs., and polymerization in situ)

IT **Adhesives**

(from .alpha.-**cyanoacrylates** and **styrene** or  
derivs., and polymerization in in situ)

IT Polymerization

(of .alpha.-**cyanoacrylates** with **styrene** or  
derivs., for adhesives)

IT 12597-69-2, Steel

(adhesives for, from .alpha.-cyanoacrylic acid esters and  
**styrene** or derivs., and polymerization in situ)

IT 98-83-9, **Styrene**, .alpha.-methyl- 100-42-5,

**Styrene** 622-97-9, **Styrene**, p-methyl-

(adhesives from .alpha.-cyanoacrylic acid esters and, and  
polymerization in situ)

IT 15802-18-3, Acrylic acid, 2-cyano-

(esters, polymers with **styrene** derivs.)

=> d 143 1-7 cbib abs hitstr hitind

L43 ANSWER 1 OF 7 HCA COPYRIGHT 2005 ACS on STN

143:79173 Interfacial **adhesion** of PE and UPR based

**composite** material. Zhou, Wen-ying; Du, Ze-qiang; Shen,  
Yan-mou; Kou, Jing-li (The 43rd Institute of the 4th Academy, CASC,  
Xian, 710025, Peop. Rep. China). Zhongguo Jiaonianji, 13(5), 52-54  
(Chinese) 2004. CODEN: ZJIAEA. ISSN: 1004-2849. Publisher:

Zhongguo Jiaonianji Bianjibu.

AB SG - P -10 type primer treatment agent and modified .alpha.-**cyanoacrylate adhesive** are used to **adhere** mandrel of PE and UPR based composite material of pressure vessel for water treatment. The result shows that the strong **adhesion**, between PE and UPR is essential to the improvement on quality and life of composite structural pressure vessel for water treatment.

IT 9003-53-6, SG-P-10

(primers; interfacial **adhesion** of PE and unsatd. polyester-based glass fibers composite as **adhesive** for pressure vessel for water treatment)

RN 9003-53-6 HCA

CN Benzene, ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5

CMF C8 H8

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 60

ST water treatment **adhesive** pressure vessel polyethylene unsatd polyester

IT **Adhesion**, physical

Primers (paints)

Water purification

(interfacial **adhesion** of PE and unsatd. polyester-based glass fibers composite as **adhesive** for pressure vessel for water treatment)

IT Glass fibers, uses

(interfacial **adhesion** of PE and unsatd. polyester-based glass fibers composite as **adhesive** for pressure vessel for water treatment)

IT **Adhesion**, physical

(interfacial; interfacial **adhesion** of PE and unsatd. polyester-based glass fibers composite as **adhesive** for pressure vessel for water treatment)

IT Polyesters, uses

(unsatd.; interfacial **adhesion** of PE and unsatd. polyester-based glass fibers composite as **adhesive** for pressure vessel for water treatment)

IT 15802-18-3D, .alpha.-Cyanoacrylic acid, esters, polymers

(**adhesives**; interfacial **adhesion** of PE and unsatd. polyester-based glass fibers composite as

**adhesive** for pressure vessel for water treatment)

IT 9002-88-4, Polyethylene  
(interfacial **adhesion** of PE and unsatd. polyester-based glass fibers composite as **adhesive** for pressure vessel for water treatment)

IT 9003-53-6, SG-P-10  
(primers; interfacial **adhesion** of PE and unsatd. polyester-based glass fibers composite as **adhesive** for pressure vessel for water treatment)

L43 ANSWER 2 OF 7 HCA COPYRIGHT 2005 ACS on STN  
138:226719 Pulsatile release **compositions** and methods for enhanced gastrointestinal drug absorption. Weinbach, Susan P.; Tillman, Lloyd G.; Geary, Richard S.; Hardee, Gregory E. (Isis Pharmaceuticals, Inc., USA). PCT Int. Appl. WO 2003017940 A2 20030306, 59 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-US26924 20020822. PRIORITY: US 2001-2001/944493 20010822.

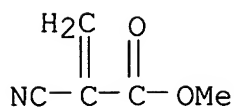
AB Modified release pharmaceutical formulations and methods for enhanced mucosal drug absorption. The formulation comprises initial population(s) of particles comprising both drug and penetration enhancer which are released at a first location in the gastrointestinal tract, and a subsequent population or populations of particles comprising a penetration enhancer(s) having a delayed release due to a polymeric coating or matrix. This penetration enhancer is released at an addnl. location(s) in the intestine downstream from the first location and enhances absorption of the drug when it reaches the addnl. location(s).

IT 25067-29-2, Poly(**methylcyanoacrylate**)  
25067-30-5, Poly(**ethylcyanoacrylate**)  
(pulsatile release comps. and methods for enhanced gastrointestinal drug absorption)

RN 25067-29-2 HCA  
CN 2-Propenoic acid, 2-cyano-, methyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

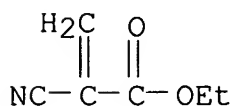
CRN 137-05-3  
CMF C5 H5 N O2



RN 25067-30-5 HCA  
 CN 2-Propenoic acid, 2-cyano-, ethyl ester, homopolymer (9CI) (CA  
 INDEX NAME)

CM 1

CRN 7085-85-0  
 CMF C6 H7 N O2



IC ICM A61K  
 CC 63-6 (Pharmaceuticals)  
 IT 56-87-1, Lysine, biological studies 57-00-1, Creatine 57-10-3,  
 Palmitic acid, biological studies 57-11-4, Stearic acid,  
 biological studies 57-55-6, Propylene glycol, biological studies  
 60-00-4, EDTA, biological studies 60-33-3, Linoleic acid,  
 biological studies 62-49-7D, Choline, acyl derivs. 67-42-5, EGTA  
 69-72-7, biological studies 71-44-3D, Spermine, derivs., polymers  
 74-79-3, Arginine, biological studies 77-92-9, Citric acid,  
 biological studies 79-06-1D, Acrylamide, polymers with DEAE  
 79-14-1, Glycolic acid, biological studies 81-23-2, Dehydrocholic  
 acid 81-24-3, Taurocholic acid 81-25-4, Cholic acid 83-44-3,  
 Deoxycholic acid 98-92-0, Nicotinamide 100-37-8D, DEAE,  
 polyimines derivs. 100-37-8D, DEAE, polymers with methacrylates  
 112-80-1, Oleic acid, biological studies 124-07-2, Caprylic acid,  
 biological studies 128-13-2, Ursodeoxycholic acid 143-07-7,  
 Lauric acid, biological studies 334-48-5, Capric acid 360-65-6,  
 Glycodeoxycholic acid 463-40-1, Linolenic acid 474-25-9,  
 Chenodeoxycholic acid 516-50-7, Taurodeoxycholic acid 541-15-1D,  
 Carnitine, acyl derivs. 544-63-8, Myristic acid, biological  
 studies 3416-24-8, Glucosamine 4117-33-3, Lysine-ethyl ester  
 7440-70-2, Calcium, biological studies 7535-00-4, Galactosamine  
 9000-30-0, Guar **gum** 9003-21-8, Polymethylacrylate  
 9003-47-8, Polyvinylpyridine 9004-34-6, Cellulose, biological  
 studies 9004-38-0, Cellulose acetate phthalate 9004-57-3,  
 Ethylcellulose 9004-65-3, Hydroxypropylmethylcellulose  
 9005-25-8, Starch, biological studies 9005-32-7, Alginic acid  
 9005-65-6, Sorbitan monoleate 9012-76-4, Chitosan 9015-73-0  
 9050-31-1, Hydroxypropyl methyl cellulose phthalate 9057-02-7,



Pullulan 9060-90-6, **Polyaminostyrene** 9062-14-0,  
 Hydroxypropylethylcellulose 13184-13-9, Dilysine 13184-14-0,  
 Trilysine 24937-49-3, Polyornithine **25067-29-2**, Poly(  
**methylcyanoacrylate**) **25067-30-5**, Poly(  
**ethylcyanoacrylate**) 25104-12-5, Polyornithine  
 25104-18-1, Poly-L-lysine 25154-80-7, Poly(  
**butylcyanoacrylate**) 25322-68-3, Polyethylene glycol  
 25496-72-4, Monoolein 26023-30-3, Poly[oxy(1-methyl-2-oxo-1,2-  
 ethanediyl)] 26062-48-6, Polyhistidine 26100-51-6, Poly  
 (D,L-lactic acid) 26402-22-2, Glyceryl monocaprate 26809-38-1,  
 Poly(**isobutylcyanoacrylate**) 26854-81-9, Polyhistidine  
 27103-47-5, Polyhexylacrylate 27638-00-2, Dilaurin 28696-31-3,  
 Arginine ethyl-ester 34346-01-5, Poly (DL-lactic acid-glycolic  
 acid) 37205-61-1, Protease inhibitor 38000-06-5, Poly-L-lysine  
 52907-01-4, Cellulose acetate trimellitate 59227-89-3,  
 1-Dodecylazacycloheptan-2-one 71138-97-1,  
 Hydroxypropylmethylcellulose acetate succinate 107811-81-4, Poly(  
**isohexylcyanoacrylate**) 160510-55-4, Glucholic acid  
 (pulsatile release compns. and methods for enhanced  
 gastrointestinal drug absorption)

L43 ANSWER 3 OF 7 HCA COPYRIGHT 2005 ACS on STN

133:198688 Multiparticulate **formulations** containing  
 polycationic complexes. Hardee, Gregory E.; Tillman, Lloyd G.;  
 Mehta, Rahul C.; Teng, Ching-Leou (Isis Pharmaceuticals, Inc., USA).  
 PCT Int. Appl. WO 2000050050 A1 20000831, 38 pp. DESIGNATED  
 STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN,  
 CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID,  
 IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,  
 MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,  
 SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY,  
 DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT,  
 SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO  
 2000-US4662 20000223. PRIORITY: US 1999-256515 19990223.

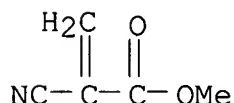
AB The present invention is related to non-parenteral multiparticulate  
 formulations capable of transporting therapeutic, prophylactic and  
 diagnostic agents across mucosal membranes such as gastrointestinal,  
 buccal, nasal, rectal and vaginal. Formulations comprise a  
 plurality of carrier particles, an agent to be delivered across a  
 mucosal membrane, and a penetration enhancer. The drug is  
**adhered** to the surface of the carrier particle or is  
 impregnated within by electrostatic, covalent or mech. forces. PLGA  
 was dissolved in hexafluoroacetone<sup>2</sup> and oligonucleotide ISIS-2302  
 was dissolved in water. The aq. and polymer solns. were combined to  
 give a dispersed phase. A continuous phase was prepd. by dissolving  
 sorbitan sesquioleate in cottonseed oil. The dispersed phase was  
 then slowly added to the continuous phase, while mixing and

continued mixing for about 3 h and increasing the temp. to 50.degree. to evap. the volatile solvent.

IT 25067-29-2, Poly(methyl **cyanoacrylate**)  
 25067-30-5, Poly(ethyl **cyanoacrylate**)  
 (multiparticulate formulations contg. polycationic complexes)  
 RN 25067-29-2 HCA  
 CN 2-Propenoic acid, 2-cyano-, methyl ester, homopolymer (9CI) (CA  
 INDEX NAME)

CM 1

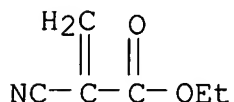
CRN 137-05-3  
 CMF C5 H5 N O2



RN 25067-30-5 HCA  
 CN 2-Propenoic acid, 2-cyano-, ethyl ester, homopolymer (9CI) (CA  
 INDEX NAME)

CM 1

CRN 7085-85-0  
 CMF C6 H7 N O2



IC A61K035-64; A61K048-00; C12Q001-68; C07H021-02; C07H021-04  
 CC 63-6 (Pharmaceuticals)  
 IT 56-87-1D, Lysine, protamine complexes 57-00-1D, Creatine,  
 protamine complexes 57-55-6, Propylene glycol, biological studies  
 74-79-3D, Arginine, protamine complexes 79-10-7D, Acrylic acid,  
 esters, polymers 92-13-7, Pilocarpine 93-14-1, Guaifenesin  
 98-92-0D, Nicotinamide, protamine complexes 105-16-8 128-13-2  
 474-25-9 474-25-9D, salts 498-71-5, Sobrerol 616-91-1,  
 N-Acetylcysteine 629-25-4, Sodium laurate 638-23-3,  
 Carbocysteine 1002-62-6, Sodium caprate 1953-02-2, Tiopronin  
 2451-01-6, Terpin hydrate 2485-62-3, Mecysteine 2898-95-5,  
 Sodium ursodeoxycholate 3416-24-8D, Glucosamine, protamine  
 complexes 3483-12-3, Dithiothreitol 3572-43-8, Bromhexine  
 4117-33-3D, Lysine ethyl ester, protamine complexes 7440-70-2D,  
 Calcium, protamine complexes, biological studies 7535-00-4D,

Galactosamine, protamine complexes 9001-75-6, Pepsin 9003-39-8, PVP 9004-34-6D, Cellulose, derivs., biological studies 9004-38-0, CAP 9005-25-8D, Starch, derivs. 9005-32-7D, Alginic acid, protamine complexes 9005-65-6, Sorbitan monoleate 9011-14-7, PMMA 9012-76-4, Chitosan 9015-73-0 10595-45-6 12125-02-9, Ammonium chloride, biological studies 13184-13-9D, Dilysine, protamine complexes 13184-14-0D, Trilysine, protamine complexes 18683-91-5, Ambroxol 19767-45-4, Mesna 24937-49-3  
**25067-29-2, Poly(methyl cyanoacrylate)**  
**25067-30-5, Poly(ethyl cyanoacrylate)**  
 25086-42-4, Poly(p-aminostyrene) 25104-12-5, Poly(L-ornithine) 25104-18-1, Poly(L-lysine) 25104-18-1D, Poly(L-lysine), protamine complexes 25154-80-7, Poly(butyl **cyanoacrylate**) 25301-02-4, Tyloxapol 25322-68-3, Polyethylene glycol 26023-30-3, Poly[oxy(1-methyl-2-oxo-1,2-ethanediyl)] 26062-48-6, Poly(Histidine) 26100-51-6, Poly(DL-lactic acid) 26809-38-1, Poly(iso-butyl **cyanoacrylate**) 26854-81-9, Poly(Histidine) 27103-47-5, Poly(hexyl acrylate) 28696-31-3D, Arginine ethyl ester, protamine complexes 34346-01-5, Glycolic acid-lactic acid copolymer 38000-06-5, Poly(L-lysine) 38000-06-5D, Poly(L-lysine), protamine complexes 53943-88-7, Letosteine 61869-07-6, Domiodol 72324-18-6, Stepronin 107811-81-4, Poly(isohexyl **cyanoacrylate**) 142442-63-5 144245-52-3 149957-14-2 151879-73-1 154719-23-0 177075-18-2 214841-85-7 223603-41-6 250705-06-7

(multiparticulate formulations contg. polycationic complexes)

L43 ANSWER 4 OF 7 HCA COPYRIGHT 2005 ACS on STN

127:240965 Polysilane **mixture**, electrophotographic photoreceptor, and image formation apparatus. Fukutome, Masato; Domaru, Takayoshi; Oka, Kunio (Kyocera Corp., Japan). Jpn. Kokai Tokkyo Koho JP 09204055 A2 19970805 Heisei, 12 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-12285 19960126.

AB The mixt. contains a polysilane compd. [(SiR1R2)x(SiR3R4)y(SiR5R6)z]n (R1-6 = alkyl, aryl, alkoxy; x, y, z = 0, 1) and a **binder** manufd. by polymg. an anionic polymerizable monomer contg. .alpha.-**methylstyrene**, butadiene, **styrene**, (meth)acrylate, acrylonitrile, **nitrostyrene**, .alpha.-**cyanoacrylate**, and cyanovinylidene in the presence of the compd. The photoreceptor has a photosensitive layer contg. a laminate of a photo-carrier exciting layer and a carrier transporting layer having the polysilane compd. on an elec. conductive support. The app. using the photoreceptor is also claimed.

IT **9003-53-6P, Styrene** homopolymer  
 (electrophotog. photoreceptor having polysilane-contg. carrier-transporting layer)

RN 9003-53-6 HCA

CN Benzene, ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5

CMF C8 H8

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

IC ICM G03G005-07

ICS C08F002-44; C08G077-60

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

IT 9003-17-2P, Butadiene homopolymer **9003-53-6P**,

**Styrene** homopolymer 9011-14-7P, Poly(methyl methacrylate)

25014-31-7P, .alpha.-Methyl **styrene** homopolymer

25014-41-9P, Acrylonitrile homopolymer 28155-86-4P, Vinylidene

cyanide homopolymer 31324-77-3P, Phenylmethyldichlorosilane

homopolymer 33594-94-4P, .alpha.-Cyanoethyl acrylate homopolymer

37282-24-9P, **Nitrostyrene** homopolymer 70158-17-7P,

Dichlorodimethylsilane-dichloromethylphenylsilane copolymer

88002-81-7P, Methylpropyldichlorosilane homopolymer 114195-87-8P,

1,1-Dichloro-1,1,2-trimethyl-2-phenyldisilane homopolymer

(electrophotog. photoreceptor having polysilane-contg. carrier-transporting layer)

L43 ANSWER 5 OF 7 HCA COPYRIGHT 2005 ACS on STN

125:60543 Non-volatile inert fluid carrier for **adhesive**

promoter **composition** for curing **adhesives**. Liu,

Ju-Chao (Loctite Corp., USA). PCT Int. Appl. WO 9611799 A1

19960425, 34 pp. DESIGNATED STATES: W: AU, BR, CA, JP, KR; RW: AT,

BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE.

(English). CODEN: PIXXD2. APPLICATION: WO 1995-US13238 19951013.

PRIORITY: US 1994-322936 19941013.

AB A nonenvironmentally hazardous, nonvolatile **adhesive**

promoter compn. is useful in promoting the cure and/or enhancing

**adhesion** of **adhesives**. The promoter compn. is a

combination of a fluid carrier that remains substantially present

during the curing of an **adhesive** compn. and an active

component capable of promoting the cure and/or enhancing

**adhesion** of the **adhesive** and being miscible in the

fluid carrier. Et **cyanoacrylate adhesive**

contained an **adhesive** promoter compn. contg. 0.2%

N-tert-butyl-2-benzothiazolsulfenamide promoter in dipropylene

glycol dibenzoate.

IT **9003-53-6, Polystyrene 9003-54-7,**

Acrylonitrile-**styrene** copolymer **9003-55-8**,  
Butadiene-**styrene** copolymer **9003-56-9**, ABS resin  
(substrate; nonvolatile inert fluid carrier for **adhesive**  
promoter compn. for curing **adhesives**)

RN 9003-53-6 HCA  
CN Benzene, ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 100-42-5  
CMF C8 H8

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

RN 9003-54-7 HCA  
CN 2-Propenenitrile, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 107-13-1  
CMF C3 H3 N

$\text{H}_2\text{C}=\text{CH}-\text{C}\equiv\text{N}$

CM 2

CRN 100-42-5  
CMF C8 H8

$\text{H}_2\text{C}=\text{CH}-\text{Ph}$

RN 9003-55-8 HCA  
CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

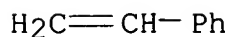
CM 1

CRN 106-99-0  
CMF C4 H6

$\text{H}_2\text{C}=\text{CH}-\text{CH}=\text{CH}_2$

CM 2

CRN 100-42-5  
CMF C8 H8



RN 9003-56-9 HCA  
CN 2-Propenenitrile, polymer with 1,3-butadiene and ethenylbenzene  
(9CI) (CA INDEX NAME)

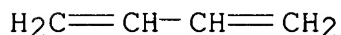
CM 1

CRN 107-13-1  
CMF C3 H3 N



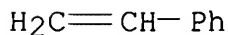
CM 2

CRN 106-99-0  
CMF C4 H6



CM 3

CRN 100-42-5  
CMF C8 H8



IC ICM B32B007-00  
ICS C09J005-04  
CC 38-3 (Plastics Fabrication and Uses)  
ST dipropylene glycol dibenzoate carrier **adhesion** promoter;  
ester carrier **adhesion** promoter; solvent nonvolatile  
**adhesion** promoter; plasticizer solvent **adhesion**  
promoter; benzothiazolsulfenamide **adhesion** promoter  
**cyanoacrylate adhesive**  
IT Polyoxymethylenes, miscellaneous  
(Delrin, substrate; nonvolatile inert fluid carrier for  
**adhesive** promoter compn. for curing **adhesives**)

- IT Solvents  
(high boiling esters; nonvolatile inert fluid carrier for **adhesive** promoter compn. for curing **adhesives**)
- IT Acrylic polymers, miscellaneous  
Ionomers  
Polyamides, miscellaneous  
Polycarbonates, miscellaneous  
Polyimides, miscellaneous  
Polysulfones, miscellaneous  
Polythiophenylenes  
Rubber, urethane, miscellaneous  
(substrate; nonvolatile inert fluid carrier for **adhesive** promoter compn. for curing **adhesives**)
- IT Polyethers, miscellaneous  
(arom., substrate; nonvolatile inert fluid carrier for **adhesive** promoter compn. for curing **adhesives**)
- IT Rubber, synthetic  
(polyester, substrate; nonvolatile inert fluid carrier for **adhesive** promoter compn. for curing **adhesives**)
- IT **Adhesion**  
(promoters, nonvolatile inert fluid carrier for **adhesive** promoter compn. for curing **adhesives**)
- IT 9016-75-5, Poly(thiophenylene)  
(Supec, substrate; nonvolatile inert fluid carrier for **adhesive** promoter compn. for curing **adhesives**)
- IT 61128-24-3, Ultem  
(Ultem, substrate; nonvolatile inert fluid carrier for **adhesive** promoter compn. for curing **adhesives**)
- IT 95-31-8 99-97-8, N,N-Dimethyl-p-toluidene 102-77-2 3077-12-1,  
2,2'-(p-Tolylimino)diethanol  
(**adhesive** promoter; nonvolatile inert fluid carrier for **adhesive** promoter compn. for curing **adhesives**)
- IT 84-66-2, Diethyl phthalate 84-74-2, Dibutyl phthalate 94-49-5,  
Ethylene glycol dibenzoate 103-45-7, Phenethyl acetate 115-95-7,  
Linalyl acetate 117-81-7, Dioctyl phthalate 120-55-8, Diethylene  
glycol dibenzoate 131-16-8, Dipropyl phthalate 7492-40-2  
19224-26-1, Propylene glycol dibenzoate 27138-31-4, Dipropylene  
glycol dibenzoate  
(solvent and plasticizer in **adhesive**; nonvolatile inert  
fluid carrier for **adhesive** promoter compn. for curing  
**adhesives**)
- IT 26062-94-2, Butylene glycol-terephthalic acid copolymer  
(substrate and polycarbonate blend; nonvolatile inert fluid  
carrier for **adhesive** promoter compn. for curing  
**adhesives**)
- IT 9002-86-2, PVC 9003-08-1, Melamine resin 9003-29-6, Polybutylene  
**9003-53-6, Polystyrene 9003-54-7,**  
**Acrylonitrile-styrene copolymer 9003-55-8,**

Butadiene-**styrene** copolymer **9003-56-9**, ABS resin  
9004-35-7, Cellulose acetate 24937-78-8, EVA 24968-12-5, Valox  
25068-26-2, Poly(4-methyl-1-pentene) 52439-05-1, Noryl  
112871-57-5, Prevex  
(substrate; nonvolatile inert fluid carrier for **adhesive**  
promoter compn. for curing **adhesives**)

L43 ANSWER 6 OF 7 HCA COPYRIGHT 2005 ACS on STN

117:66084 Method for determining stratum corneum **composition**  
by **adhesive** tape sampling method. Endo, Masayuki; Suzuki,  
Yasuhiro; Sagya, Hiromichi; Sato, Masahiro (Pola Chemical  
Industries, Inc., Japan). Jpn. Kokai Tokkyo Koho JP 04121664 A2  
19920422 Heisei, 12 pp. (Japanese). CODEN: JKXXAF. APPLICATION:  
JP 1990-242026 19900912.

AB The title method involves: (1) sampling the corneum with a  
pressure-sensitive **adhesive** tape, (2) treating the  
**adhesive** tape with org. solvents (e.g. CHCl<sub>3</sub>) for the  
corneum lipid and cell component extn., and (3) analyzing the lipids  
and cell components. The method is esp. useful for testing the skin  
compatibility of cosmetic products.

IT **9003-55-8**

(rubber, **adhesive** tapes contg., sampling with, in  
compn. detn. in stratum corneum)

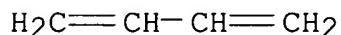
RN 9003-55-8 HCA

CN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) (CA INDEX NAME)

CM 1

CRN 106-99-0

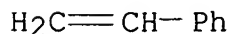
CMF C4 H6



CM 2

CRN 100-42-5

CMF C8 H8



IC ICM G01N033-92

ICS G01N033-50

CC 9-16 (Biochemical Methods)

Section cross-reference(s): 62

ST stratum corneum component detn **adhesive** tape; lipid detn



- stratum corneum **adhesive** tape; protein detn stratum  
corneum **adhesive** tape
- IT Cellophane  
(**adhesive** tape, sampling with, in compn. detn. in  
stratum corneum)
- IT Rubber, butadiene-**styrene**, uses  
Rubber, butyl, uses  
Rubber, natural, biological studies  
Rubber, neoprene, uses  
Rubber, synthetic  
Rubber, synthetic  
(**adhesive** tapes contg., sampling with, in compn. detn.  
in stratum corneum)
- IT Chromatography, column and liquid  
Chromatography, gas  
Electrophoresis and Ionophoresis  
(component detn. in stratum corneum with, sampling with  
**adhesive** tapes in relation to)
- IT Amino acids, analysis  
Lipids, analysis  
Proteins, analysis  
(detn. of in stratum corneum, by **adhesive** tape sampling  
method)
- IT Solvents  
(org., extn. with, in compn. detn. in stratum corneum by  
**adhesive** tape sampling method)
- IT **Adhesive** tapes  
(sampling with, in compn. detn. in stratum corneum)
- IT Rubber, synthetic  
(butadiene-vinylpyridine, **adhesive** tapes contg.,  
sampling with, in compn. detn. in stratum corneum)
- IT Rubber, synthetic  
(**cyanoacrylate**, **adhesive** tapes contg.,  
sampling with, in compn. detn. in stratum corneum)
- IT Lipids, compounds  
(peroxides, detn. of in stratum corneum, by **adhesive**  
tape sampling method)
- IT Skin, composition  
(stratum corneum, lipid and other component detn. in,  
**adhesive** tape for sampling in)
- IT 9000-01-5, **Gum** arabic 9000-65-1, **Gum**  
tragacanth  
(**adhesive** tapes contg., sampling with, in compn. detn.  
in stratum corneum)
- IT 9004-34-6  
(cellophane, **adhesive** tape, sampling with, in compn.  
detn. in stratum corneum)
- IT 56-40-6, Glycine, analysis 56-41-7, Alanine, analysis 56-45-1,

- Serine, analysis 56-84-8, Aspartic acid, analysis 56-86-0,  
Glutamic acid, analysis 56-87-1, L-Lysine, analysis 60-18-4,  
L-Tyrosine, analysis 61-90-5, Leucine, analysis 63-68-3,  
Methionine, analysis 63-91-2, Phenylalanine, analysis 71-00-1,  
Histidine, analysis 72-18-4, Valine, analysis 72-19-5,  
L-Threonine, analysis 73-32-5, Isoleucine, analysis 74-79-3,  
L-Arginine, analysis  
(detn. of in stratum corneum, by **adhesive** tape sampling  
method)
- IT 60-24-2 67-66-3, Chloroform, biological studies  
(extn. with, in compn. detn. in stratum corneum by  
**adhesive** tape sampling method)
- IT 504-17-6, Thiobarbituric acid  
(in lipid peroxide detn. in stratum corneum by **adhesive**  
tape sampling method)
- IT **9003-55-8** 9010-85-9 9010-98-4  
(rubber, **adhesive** tapes contg., sampling with, in  
compn. detn. in stratum corneum)
- L43 ANSWER 7 OF 7 HCA COPYRIGHT 2005 ACS on STN  
108:188116 Primer **compositions** for nonpolar or highly  
crystalline resins. Fukuda, Kazuhide; Okuma, Atsushi (Three Bond  
Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 62289280 A2 19871216  
Showa, 9 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP  
1986-134290 19860610.
- AB The title primers contain active H-contg. compds. and alkoxy silanes.  
Polyethylene surfaces were coated with a soln. contg.  
(EtO)<sub>2</sub>SiMe(CH<sub>2</sub>)<sub>3</sub>NH<sub>2</sub> 1, PhSH 0.03, and .alpha.-**methylstyrene**  
0.01 part and bonded to each other with a **cyanoacrylate**  
**adhesive** (Three Bond 1741), giving **adhesion** (JIS K  
6861-1977) 47 kg/cm<sup>2</sup> and good heat and water resistance.
- IC ICM B05D007-24  
ICS C09D005-00; C09J005-02
- CC 38-3 (Plastics Fabrication and Uses)  
Section cross-reference(s): 37, 42
- ST alkoxy silane primer **adhesion** polymer; silane coupling  
polymer; amine silane primer polymer; coupling alkoxy silane polymer;  
polyethylene **adhesion** primer; **methylstyrene**  
primer **adhesion**; **cyanoacrylate adhesion**  
polyethylene; **styrene** methyl primer polymer
- IT Polyamines  
(in primers for **adhesion** of)
- IT Carboxylic acids, uses and miscellaneous  
Thiols, uses and miscellaneous  
(in primers for **adhesion** of polymers)
- IT Rubber, silicone, uses and miscellaneous  
Urethane polymers, uses and miscellaneous  
(primers for **adhesion** of)

- IT Amino acids, polymers  
Glycols, polymers  
Phenols, polymers  
(polymers, in primers for **adhesion** of).
- IT 15802-18-3  
(**adhesives**, for nonpolar resins, primers for)
- IT 56-86-0, uses and miscellaneous 56-89-3, Cystine, uses and  
miscellaneous 60-24-2 64-17-5, uses and miscellaneous 67-56-1,  
uses and miscellaneous 67-63-0, uses and miscellaneous 70-49-5,  
Thiomalic acid 88-99-3, uses and miscellaneous 91-66-7,  
N,N-Diethylaniline 98-83-9, uses and miscellaneous 107-15-3,  
uses and miscellaneous 108-98-5, uses and miscellaneous  
110-16-7, uses and miscellaneous 137-06-4, o-Toluenethiol  
143-10-2 144-62-7, Oxalic acid, uses and miscellaneous 613-94-5,  
Benzoylhydrazine 919-30-2, .gamma.-Aminopropyltriethoxysilane  
3179-76-8, .gamma.-Aminopropylmethyldiethoxysilane 3663-44-3,  
3-Aminopropylmethyldimethoxysilane 30817-94-8,  
Mercaptomethyltrimethoxysilane 54869-23-7, Alginin 65644-31-7  
114415-80-4  
(in primers for **adhesion** of polymers)
- IT 9002-84-0, Teflon 9002-88-4 9003-07-0, Polypropylene  
9003-29-6, Polybutylene 9016-75-5, Poly(phenylene sulfide)  
(primers for **adhesion** of)